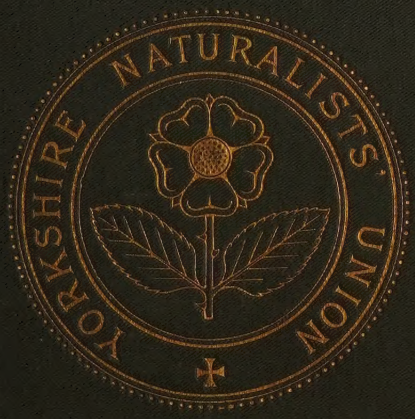
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THE

FUNGUS FLORA

OF

YORKSHIRE.

BOTANICAL TRANSACTIONS OF
THE YORKSHIRE NATURALISTS' UNION.
VOL. 4.

THE FUNGUS FLORA OF YORKSHIRE.

A COMPLETE ACCOUNT OF THE KNOWN FUNGI OF THE COUNTY.

BY

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N.B.—The Introduction issued with the Second Instalment takes the place of that on pages 5-8 in the First Instalment.

INTRODUCTION.

After the records of fourteen successive annual Fungus Forays within the county, added to those previously and contemporaneously made, it has been considered advisable to summarise the results in the form of an annotated list of known Yorkshire species.

In addition to the work accomplished at the Fungus Forays and the Field Meetings of the Union, a considerable amount of independent collecting and recording has been done by individual members. In this connection James Needham stands out pre-eminently, he having worked continuously for the past seventeen years in the neighbourhood of Hebden Bridge. The following districts have also been more or less investigated:—

Liversedge, including Coxley Valley, by Rev. W. Fowler, M.A.

Goole, by H. F. Parsons, M.D., and Thos. Birks.

Selby, by W. N. Cheesman, F.L.S.

Bradford, Airedale, Wharfedale, etc., by W. West, F.L.S., and the late H. T. Soppitt.

East Yorks., by W. W. Strickland ('Nat.', June & July '89).

Huddersfield, etc., by Alfred Clarke.

Goitstock Woods, etc., near Cullingworth, by Thos. Hebden.

Langstrothdale, by Rev. C. H. B. Woodd, B.A. ('Nat.' May 1891).

Swinton and Masham, by W. A. Thwaites, of Masham.

Sheffield district, by Thos. Gibbs.

Scarborough; Bulmer; and Castle Howard, by G. Massee.

Halifax and Hebden Bridge districts, by C. Crossland and James Needham.

In order to avoid constant repetition of names and districts and their investigators, it may be here stated that they stand connected throughout the list. If a record be from some other source, the name or initials of the authority is given in brackets.

The following abbreviations of the various sources of information as to records have been adopted :—

(Bolton, Cat.)=A Catalogue of Plants growing in the Parish of Halifax, forming pp. 729-764 in Watson's History and Antiquities of the Parish of Halifax, 1775.

(Bolton's Hist. Fung.; Bolton) = Bolton's History of Funguses growing about Halifax, 1788-1791.

(Tab. . . . in Brit. Mus. Nat. Hist. coll.)=Bolton's unpublished drawings in the British Museum, Natural History collection, South Kensington.

With very few exceptions, Bolton's figures represent either new species or first British records. Most of the specific names he gives vary from those at present in use, but it is not considered necessary to give these synomyns in all cases.

(Grev. . .)=Grevillea, A Quarterly Record of Cryptogamic Botany, 1872-1894: Cooke and Massee.

('Nat.')=The 'Naturalist.' Yorkshire Naturalist Union—Y.N.U.—Monthly publication, July 1875-June 1905.

(Tr.)=Transactions of the Y.N.U.

Tr. i. issued 1878 contains Botanical Report for 1877.
Tr. ii. „ 1879 „ „ „ 1878.
Tr. iv. „ 1880-2 „ „ „ 1879.
Tr. ix. „ 1886 „ List of Fungi collected in 1881.

The Botanical Report—Cryptogams—for 1880 is printed in instalments in 'Nat.' June, July, Aug., and Sep., 1881.

(*Nat. . .)=The species was seen at a Y.N.U. Excursion, and the record published in the 'Naturalist' on date given.

(Exc. . .) with date=The species was seen at a Y.N.U. Excursion in the year given, but no record published in 'Nat.'

(Exc. Circ. . .) with date of Y.N.U. Meeting=The species was referred to in the Circular issued for the Excursion.

(Goole S. Soc.)=Goole Scientific Society.

(Hud. Bot. Soc.; H.B. Soc.; H.B.S.)=Huddersfield Botanical Society; Report, 1883. A. Clarke.

(Lees' Fl.) = Flora of West Yorkshire: F. A. Lees, 1887. Includes the two vice-counties S.W. and Mid W.

(Mass., Mon. Brit. Gastr.) = Massee's Monograph of British Gastromycetes, 1889.

(Mass., Mon. Myx.) = Massee's Monograph of the Myxogastres, 1892.

(Cooke's Illustr.) = Illustrations of British Fungi (Hymenomycetes), containing 1199 coloured plates, M. C. Cooke, 1881-1891. When these are quoted it signifies that the figures were drawn from specimens gathered in the locality stated in the text.

(Fl. Skipt.) = Flora of Skipton and District: Lister Rotheray, 1900. Covers a radius of about twelve miles round Skipton.

(Fl. Hx.) = Flora of Halifax: W. B. Crump and C. Crossland, 1904. Embraces the old parish of Halifax: a natural area forming the watershed of the river Calder above Brighouse, its extent being about 127 square miles. Within this area, which includes the Hebden Bridge district, over 1230 species of fungi have been met with.

(Hull S. & F.N.C.) = Hull Scientific and Field Naturalists' Club.

(F.F.) = Fungus Foray. The Union Fungus Forays have been held, and results recorded as follow :—

1881.—Harrogate and Studley Royal, with Leeds as centre (Tr. ix. March 1886, pp. 207-224).

1884.—Selby ('Nat., Jan. 1885, pp. 140-141).

1888.—Bramham and Harewood, with Leeds as centre ('Nat.', Nov. 1888, pp. 321-329).

1891.—Doncaster ('Nat., Nov. 1891, pp. 339-348).

1892.—Castle Howard, etc., with Malton as centre ('Nat.', Dec. 1892, pp. 355-365).

1893.—Pocklington ('Nat.', March 1894, pp. 69-76).

1894.—Whitby and Arncliffe (MS., C. Crossland).

1895.—Huddersfield (Huddersfield Naturalist and Photographic Society's Circular. A. Clarke).

1896.—Selby (' Nat.', Dec. 1896, pp. 355-365).

1897.—Barnsley (' Nat.', Nov. 1897, pp. 341-348).

1898.—East Keswick (' Nat.', Dec. 1898, pp. 357-362).

1899.—Sutton, near Askern (' Nat.', Nov. 1899, pp. 337-339; Dec., pp. 367-372).

1900.—Mulgrave Woods (' Nat.', Nov. 1900, pp. 337-350).

1901.—Cadeby, etc. (' Nat.', Nov. 1901, pp. 333-350).

1902.—Egton Bridge, etc. (' Nat.', Nov. 1902, pp. 355-365).

1903.—Helmsley (' Nat.', Nov. 1903, pp. 425-436).

1904.—Rokeby (' Nat.', Nov. 1904, pp. 329-342).

The list of 2626 species is compiled from over 16,700 records, and is arranged under the five county divisions, or vice-counties, employed by H. C. Watson in "Cybele Britannica," viz.:—61, South-east Yorks.; 62, North-east Yorks.; 63, South-west Yorks.; 64, Mid-west Yorks.; 65, North-west Yorks. The records are quoted in the order of priority of date of first record, hence the divisions do not follow a fixed sequence.

The number of records for each vice-county is as follows:—

S.W.	Mid W.	N.W.	N.E.	S.E.
7912.	2369.	1188.	4018.	1226.

While every care has been taken to include all reliable records, many considered to be of a doubtful nature have been excluded. Others, as *Zasmidium cellare* Fr.; *Anthina flammula* Fr.; *Octoma viridis* Rabh.; etc., now known to be nothing more than sterile mycelium, have been altogether omitted. Others, as *Trichoderma viride* Pers.; *Sepedonium chrysospermum* Fr.; *Bispora monilioides* Corda, and a few more of the group *Hyphomycetes*, now looked upon as conidial conditions of higher forms, have been printed in small capitals within square brackets [ ] and have not been numbered.

The paucity of information respecting the numbers and distribution of other counties renders comparative tables meaningless. The only other county whose Mycological

Flora includes all groups of fungi is Herefordshire. The numbers are as follow :—

Hymenomycetes	655	1082
Ustilagineæ and Uredineæ . .	56	
Ascomycetes	224	
Sphæropsidiaceæ, Melanconiaceæ .	52	
Hyphomycetes	95	

The entire known British Fungus Flora numbers rather over 5000 species, so that considerably over half this number have been recorded for Yorkshire. According to Saccardo's latest account in his "Sylloge Fungorum," the Fungus Flora of the whole world consists of just over 52,000 species.

During the last three or four decades the changing of generic names has been somewhat extensive, especially in the *Ascomycetes*. In some cases one and the same species, has, in various Mycological works, been burdened with over half-a-dozen different generic names. To include all such synonyms would serve no useful purpose in this list, and only such as were necessary to identify previously published records have been employed.

In conclusion it may be well to intimate that the present enumeration is not considered more than "a contribution" towards the actual number of fungi, indigenous to Yorkshire. Our knowledge of the extent of this flora is yet far from being complete; many new county, and a few new British records are added each year. Increased interest is being taken in this branch of botany, and the accummulation of new records is constant: these have been included up to going to press. Seeing that such a vast proportion of the county remains to be thoroughly investigated, there is plenty of scope for new discoveries. What is possible in this direction may be gathered by referring to the Scarborough and Hebden Bridge records, in comparison to all others. The fact is here made clear that paucity of records for any given district implies lack of investigation rather than absence of fungi.

We are indebted to the whole of the Mycological Committee for assistance in every way possible during the progress of this work.

The following is a summary of each group. Column four gives the number of genera and species. Columns five to nine give the number of species recorded for each county division respectively:—

			Gen.	Sp.	S.W.	M.W.	N.W.	N.E.	S.E.
Basidio-mycetes	GASTRO-MYCETES	NIDULARIACEÆ	5	6	6	4	4	5	4
		LYCOPERDACEÆ	4	24	16	12	5	20	5
		SCLERODERMACEÆ	1	4	2	3	1	4	1
		HYMENOGASTRACEÆ	3	5	3	1	..	2	2
		PHALLACEÆ	2	2	2	2	2	2	2
	HYMENO-MYCETES	AGARICACEÆ	53	946	669	366	286	708	306
		POLYPORACEÆ	10	145	102	57	47	114	53
		HYDNACEÆ	8	37	25	8	10	26	8
		CLAVARIACEÆ	4	42	29	17	13	34	12
		THELEPHORACEÆ	10	71	41	29	18	59	21
		TREMELLACEÆ	9	27	17	13	12	22	10
Asco-mycetes		EXOBASIDIACEÆ	1	1	1	1	..	..	1
		UREDINACEÆ	12	124	82	81	54	95	56
		USTILAGINACEÆ	6	25	18	13	3	13	10
	PYRENO-MYCETES	..	71	248	117	61	35	175	54
		PERISPORIACEÆ	12	27	15	9	6	15	6
		HYSTERIACEÆ	10	19	5	3	3	17	4
	DISCO-MYCETES	.....	75	429	295	112	118	155	63
		ONYGENACEÆ	1	2	2	1	1	..	..
		ELAPHOMYCETACEÆ	1	1	1	1	1	..	1
		CENOCOCCACEÆ	1	1	..	..	..	1	..
		TUBERACEÆ	1	1	..	..	1	..	..
		GYMNOASCACEÆ	4	4	4	..	..	1	..
		EXOASCACEÆ	2	4	..	..	..	4	..
Phyco-mycetes	.....	.....	26	57	41	29	10	33	8
	DEUTERO-MYCETES	.....	36	87	26	6	8	56	4
	HYPHO-MYCETES	.....	68	191	139	40	40	80	32
Myxo-mycetes	.....	.....	29	95	53	37	31	77	37
		ACRASIACEÆ	1	1	..	..	..	1	..
			466	2626	1711	907	708	1719	700

FUNGI.

Class BASIDIOMYCETES.

Order GASTROMYCETES.

Family *NIDULARIACEÆ*.

Genus NIDULARIA Bull., 1780.

1. **Nidularia pisiformis** Tul.

N.E.—On heap of rotten leaves, Scarborough.

S.W.—On the ground among logwood chips, Salterhebble; and on twigs, Elland Hall Wood, Hx. (H.T.S.).

Genus CYATHUS Hall, 1768.

2. **Cyathus striatus** Hoff.

S.W.—Halifax, 1788 (Bolton's Hist. Fung., Tab. 102, f. 2).

N.E.—Scarborough. Mulgrave Woods, 1902.

S.E.—Escrick (Selby F.F., 1896).

Mid W.—Bishop's Wood, Selby (Y.N.U. Bot. Report, 1878). Harewood (F.F., 1898).

3. **Cyathus vernicosus** DC.

S.W.—Halifax, 1788, 'grows on putrid wood, or in gravel walks' (Bolton's Hist. Fung., Tab. 102, f. 1). In a cucumber frame at Hainworth; Undercliffe, near Bradford (Lees' Fl.). Hewenden Wood, Cullingworth. Cadeby and Melton (F.F., 1901).

Mid W.—Newland and Brayton; Selby (Tr. Y.N.U., ix, p. 221). Bishop's Wood (F.F., 1896). East Keswick (F.F., 1898). On stubble, Leeds district (Lees' Fl.).

N.E.—Castle Howard. Scarborough. Bulmer, on soil in potato field.

S.E.—Hull, in great abundance on dock-yard sweepings (C. Waterfall). North Grimston, W. N. Cheesman.

N.W.—Masham.

Var. **agrestes** [Syn. *Cyathus agrestis* Fr.].

N.E.—On chips, Bulmer (Mass. Mon. Brit. Gast., p. 56).

Genus CRUCIBULUM Tul., 1844.

4. **Crucibulum vulgare** Tul.

Mid W.—Hawkesworth (Bradford Nat. Soc.). Bolton Woods (Fl. Skipt.).

S.W.—Goole (Y.N.U. Bot. Report, 1878). Leeds district; Saltaire (Lees' Fl.). Edlington Woods (Doncaster F.F., 1891). Rockley (Barnsley F.F., 1897). On worked timber, Keighley (Fl. Skipt.). Cadeby; Melton; Potridings Wood (F.F., 1901). On decaying timber, railway bridge, Salterhebble, Hx. (H.T.S.).

S.E.—Escrick (Selby F.F., 1896).

N.W.—Masham.

N.E.—On dead wood, chips, etc., Scarborough. Castle Howard (G.M.).

Genus SPHÆROBOLUS Tode, 1791.

5. **Sphærobolus stellatus** Tode.

On moist rotting wood, bark, twigs, sawdust, etc., in shaded places. Common. Has been met with at all the Forays, and in each of the five county divisions.

Genus THELEBOLUS Tode.

6. **Thelebolus terrestris** (A. & S.) Tode.

N.W.—On fir leaves, Richmond (Cooke's Hdbk.).

S.W.—On decorticated oak stick buried in grass, Cullingworth (Fl. Skipt.).

7. **Thelebolus stercoreus** Tode.

S.W.—On rabbit dung, Ecclesall, Sheffield (Nat., April, 1902, p. 132).

First Yorkshire record.

Family *LYCOPERDACEÆ.*

Genus TULOSTOMA Pers., 1798.

8. **Tulostoma mammosa** Fr.

N.E.—Among moss on old wall, Castle Howard (R. Spruce, Mass. Mon. Brit. Gastr., pp. 85-6).

Genus GEASTER Mich., 1729.

9. **Geaster Bryantii** Berk.

N.E.—On wood, among leaves, Castle Howard (G.M.).

10. **Geaster limbatus** Fr.

N.E.—On the ground, Castle Howard (Mass. Mon. Brit. Gastr., p. 79).

11. **Geaster fornicatus** Fr.

S.W.—Near Doncaster (Lees' Fl.).

N.E.—On the ground, Castle Howard (Mass. Mon. Brit. Gastr., p. 80).

12. **Geaster fimbriatus** Fr.

Mid W.—Hambleton Haugh (Lees' Fl.). Studley Royal (F.F., 1881).

N.E.—On the ground, Castle Howard (Mass. Mon. Brit. Gastr., pp. 81-2).

[**Geaster rufescens** Pers.

S.E.—Boynton (W.W.S., 'Nat.', July 1889). A doubtful species].

13. **Geaster hygrometricus** Pers.

[Syn. *Lycoperdon stellatum* Bull.].

S.W.—Halifax, 1790 (Bolton's Hist. Fung., Tab. 179).

N.E.—Scarborough (Mass. Mon. Brit. Gastr., p. 83). Castle Howard and Malton (F.F., 1892). Egton (F.F., 1902).

Mid W.—Rombald's Moor (P. H. Grimshaw, 'Nat.', Sep., 1891).

14. **Geaster lageniformis** Vitt.

S.W.—Beckfoot Lane, Bingley (1822-3; not seen since). (Lees' Fl.).

Probably a subspecies of *G. fimbriatus*, Sacc. Syl., vii., p. 86.

15. **Geaster Michelianus** Worthington G. Smith.

N.E.—On the ground in woods. Mulgrave Woods, Whitby.

S.W.—Campsall Woods, Sutton (F.F., 1899).

16. **Geaster striatus** DC.

N.E.—Among dead leaves, Castle Howard (G.M.).

Genus LYCOPERDON Tourn., 1700.

17. **Lycoperdon echinatum** Pers.

N.E.—Scarborough (Mass. Mon. Brit. Gastr., p. 67).

S.W.—Among dead leaves, Pecket Wood, Hebden Bridge.

18. **Lycoperdon Hoylei** Berk.

S.W.—Doncaster (F.F., 1891).

N.E.—Egton (F.F., 1902).

19. **Lycoperdon atropurpureum** Vitt.

N.E.—Castle Howard (Mass. Mon. Brit. Gastr., pp. 68-9).

20. **Lycoperdon saccatum** Vahl.

Mid W.—Bolton Woods, 1878 (Lees' Fl.). Bramham (F.F., 1888).

N.E.—Goathland (exhib. at the Leeds Foray, 1888; E. R. Waite). Scarborough (Mass. Mon. Brit. Gastr., pp. 69-70). Bulmer. Arncliffe (Whitby F.F., 1894).

S.W.—Heaton Woods (Lees' Fl.). Birdwell (Barnsley F.F., 1897). Pecket Wood, Hebden Bridge. Whitley Woods, Huddersfield, several years in succession.

S.E.—Escrick (Selby F.F., 1884 and 1896).

21. **Lycoperdon gemmatum** Batsch.

On the ground among grass in woods and shady places; also frequent in meadows and pastures.

S.W.—Halifax, 1788 (Bolton's Hist. Fung., Tab. 117). Saltaire (Tr. Y.N.U., ix., p. 221). Edlington Woods (Doncaster F.F., 1891). Midge Hole Wood, Hebden Bridge. Fixby pastures; Luddenden Dean; Hx. Sheffield.

Mid W.—Studley Royal; Micklefield (Tr. Y.N.U., ix., p. 221). Langstrothdale ('Nat.', May 1891). Bishop's Wood (Selby F.F., 1896). Harewood (East Keswick F.F., 1898). Bolton Woods (Fl. Skipt.).

N.E.—Scarborough (Mass. Mon. Brit. Gastr., p. 71). Castle Howard (F.F., 1892). Mulgrave Woods and Arncliffe (F.F., 1894).

S.E.—Escrick (Selby F.F., 1896).

22. **Lycoperdon pyriforme** Schæff.

On the ground, and on rotten stumps and branches; in fields and woods. Common. Has been met with at nearly all the Fungus Forays, and in each of the county divisions. Stations too numerous to give in detail.

Var. **excipuliforme** Desm. (not of Scop.).

N.E.—Castle Howard (F.F., 1892).

23. **Lycoperdon perlatum** Pers.

Mid W.—Bramham (Leeds F.F., 1888). Bolton Woods (H.T.S.).

N.E.—Bulmer; Scarborough (Mass. Mon. Brit. Gastr., pp. 72-3). Egton (F.F., 1902).

S.W.—Goitstock, near Cullingworth (Fl. Skipt.). Pecket Wood, Hebden Bridge. Elland Park Wood, Hx. (A. Clarke).

24. **Lycoperdon cælatum** Bull.

Mid W.—Bramham Park (Lees' Fl.). Langstrothdale ('Nat.', May 1891).

S.W.—Roche Abbey Valley; Heaton; Cullingworth (Lees' Fl.). Hebden Bridge. Mixenden, Hx.

N.E.—Scarborough (Mass. Mon. Brit. Gastr., p. 74).

In fields and woods, on grassy road sides, etc. Frequent.

25. **Lycoperdon bovista** L. [Syn. *L. giganteum* Fl. Dan.].

S.W.—Halifax, 1788 (Bolton's Hist. Fung., Tab. 117, f.a.). Roche Abbey Valley; Saltaire; Cullingworth (Lees' Fl.). Wakefield ('Nat.', 1875-6). Hebden Bridge. Fixby, Luddenden Dean, etc., Hx. Deighton, Huddersfield, July 1890, one specimen, 32 in. circumference. Wooldale, Thongsbridge (C. H. Broadhead).

Mid W.—Arthington, 1881 (Tr. Y.N.U., ix.). Langstrothdale ('Nat.', May 1891). East Keswick (F.F., 1898). Crookrise (Fl. Skipt.). Leeds (Lees' Fl.).

N.E.—Castle Howard; Scarborough (Mass. Mon. B. Gastr., p. 75). Bulmer. Mulgrave Woods (F.F., 1890). Coxwold (W. Foggitt, Y.N.U. Ex. Circ., May 1902). Helmsley, one 7 lbs. weight, 44 in. circumference; later, same season (1900), "one scaling 10¼ lbs. Such specimens have been phenomenally numerous in our district this year, mostly in 'fog' fields" (H. Slater).

N.W.—Masham.

S.E.—Hornsea (*Nat., May 1900).

Frequent in pastures and meadows, and occasionally in open, grassy woods. Edible when young and white throughout.

GENUS BOVISTA Dill., 1719.

26. **Bovista nigrescens** Pers.

In pastures, poor meadows, and heathy places.

S.W.—Halifax, 1775 (Bolton's Hist. Fung., Tab. 118). Goitstock; Roche Abbey Valley (Lees' Fl.). Sprotborough (Cadeby F.F., 1901). Luddenden Dean, Hx. (H.T.S.).

N.E. Scarborough. Castle Howard (F.F., 1892). Mulgrave Woods (F.F., 1900).

MID W.—Harewood and East Keswick (F.F., 1898).

N.W.—Masham. Cotherstone (Exc. 1897).

27. **Bovista plumbea** Pers.

S.W. Wakefield ('Nat.', 1875-6). Cullingworth; Endcliffe Valley; Roche Abbey Valley (Lees' Fl.). Deighton, Huddersfield. Golcar.

MID W.—Leeds district (Lees' Fl.).

N.E.—Heaths, Scarborough. Mulgrave Woods (F.F., 1900). Egton (F.F., 1902).

[**Bovista ammophila** Lev.

S.W.—In pasture, Cullingworth, 1885 (Lees' Fl.). An imperfectly known species. Probably this record represents a form of *Bovista plumbea*].

28. **Bovista cepæformis** (Bull.) Mass.

MID W.—Harewood and East Keswick (F.F., 1898).

29. **Bovista pusilla** (Fr.) DeToni.

S.W.—Halifax (Bolton's Hist. Fung., Tab. 117, f.c.). Near Hebden Bridge.

MID W.—Bolton Woods (Lees' Fl.). Langstrothdale ('Nat., May 1891).

N.E.—Castle Howard (Mass. Mon. Brit. Gastr., pp. 65-6).

SCLERODERMACEÆ.

GENUS SCLERODERMA Pers., 1801.

30. **Scleroderma vulgare** Fr.

On the ground in open woods. Common. Distribution general.

31. **Scleroderma verrucosum** Pers.

N.E.—Scarborough (Mass. Mon. Brit. Gastr., pp. 50-1). Bulmer.

Mid W.—Harewood (F.F., 1898).

32. **Scleroderma bovista** Fr.

Mid W.—Studley Royal, 1881 (Tr. Y.N.U., ix., p. 221). Harewood (F.F., 1898).

S.W.—Heaton Wood (Lees' Fl.). Hebden Bridge.

N.E.—Castle Howard (Mass. Mon. Brit. Gastr., p. 51).

33. **Scleroderma geaster** Fr.

N.E.—On the ground in shrubbery, Malton (M. B. Slater). Scarborough. Rare.

HYMENOGASTRACEÆ.

Genus MELANOGASTER Corda, 1857.

34. **Melanogaster variegatus** Tul.

Mid W.—Ilkley, 1883 (Lees' Fl.).

N.E.—On soil under beech trees. Scarborough. Rare.

35. **Melanogaster ambiguus** Tul.

S.E.—Hollokill Wood, Boynton (W.W.S., 'Nat.', June 1889).

S.W.—In soil under beeches, Goitstock (Fl. Skipt.).

Has not been found at any of the Union Forays.

Genus RHIZOPOGON Fries, 1818.

36. **Rhizopogon luteolus** Tul.

S.W.—In soil under beech trees, Goitstock Wood (T. Hebden). The only British record, with the exception of one for Scotland, in Mass. Mon. Brit. Gastr., p. 41.

Genus HYMENOGASTER Vitt., 1831.

37. **Hymenogaster vulgaris** Tul.

N.E.—In loose soil, Castle Howard (G.M.).

38. **Hymenogaster Klotzschii** Tul.

S.W.—In sandy soil, Pecket Wood, Hebden Bridge. When the Mon. Brit. Gastr. was published (1889) this species had only been recorded in Britain for Edinburgh and Tunbridge Wells.

PHALLACEÆ.

GENUS ITHYPHALLUS Fischer, 1883.

39. **Ithyphallus impudicus** (L.).

'Grows in woods and hedges about Halifax, 1776' (Bolton's Hist. Fung., Tab. 91). On the ground in woods, shrubberies, shady hedge banks, etc. Often detected at a distance by its unpleasant odour. Frequent; distribution general; has been met with at most of the Forays, and reported from all the county divisions.

GENUS MUTINUS Fries, 1849.

40. **Mutinus caninus** (Huds.) Fisch.

S.W.—Halifax (Bolton's unpublished drawing). In woods and moist bushy places, often among moss; not infrequent.

N.E.—Buttercrambe ('Nat.', 1878-9). Scarborough (Mass. Mon. Brit. Gastr., p. 89). Castle Howard (F.F., 1892). Mulgrave Woods (F.F., 1900). Egton (F.F., 1902).

S.W. Wharncliffe Woods (*'Nat.', 1878-9). Saltaire; Bingley Woods; New Wortley; Roche Abbey (Lees' Fl.). Warmsworth (Cadeby F.F., 1901). Ovenden, Hx. (G. L. Lister). Hebden Bridge.

MID W.—Harewood (Leeds F.F., 1888). Bishop's Wood (Selby F.F., 1896). Bolton Woods, etc. (Fl. Skipt.).

S.E.—Allerthorpe (Pocklington F.F., 1893).

N.W.—Masham.

HYMENOMYCETES.

AGARICACEÆ.

AGARICEÆ.

LEUCOSPOREÆ.

GENUS AMANITA Pers., 1797.

41. **Amanita virosa** Fr.

N.E.—Scarborough.

S.E.—Everingham and Pocklington (F.F., 1893).

MID W.—Harewood (F.F., 1898).

In damp woods. Poisonous. Smell strong and disagreeable.

42. **Amanita phalloides** Fr.

S.W.—Halifax, 1787 (Bolton's Hist. Fung., Tab. 48). Bingley; Nab Wood, Saltaire (Lees' Fl.). Edlington (Doncaster F.F., 1891). Huddersfield (F.F., 1895). Notton (Barnsley F.F., 1897). Ovenden; Northdean Wood; Luddenden Dean; Stainland, etc., Hx. Several woods about Hebden Bridge. Coxley Valley. Goitstock. Wharncliffe and Ecclesall, Sheffield.

N.E.—Scarborough. Mulgrave Woods (F.F., 1894). Staithes (* 'Nat.', April, 1898).

S.E.—Skipwith (Goole S. Soc., 'Nat.', 1878-9). Escrick and Blackwood (Selby F.F., 1896).

Mid W.—Haddlesey (Lees' Fl.). Stainor and Bishop's Woods (Selby F.F., 1896). Shipley Glen (Lees' Fl.).

N.W.—Masham.

Frequent in woods, August to November. Occasionally appearing in spring. Variable in size and colour. Probably the most poisonous of European fungi; and, along with *Amanita mappa* and *Amanita pantherina*, causing the majority of deaths due to fungus poisoning. 'It is of a poisonous quality and many have suffered by eating it' (Bolton, p. 48).

[**Amanita verna** Bull.

S.W.—Bradley Gate and other woods about Huddersfield (Hud. Bot. Soc., 1883).

This is a form of *Amanita phalloides*].

43. **Amanita mappa** (Batsch).

S.W.—Bingley Woods (Lees' Fl.). Sandal Beat (Doncaster F.F., 1891). Huddersfield (F.F., 1895). Hugsett; Birdwell; and Notton (Barnsley F.F., 1897). Goitstock (Fl. Skipt.). Hebden Bridge. Northdean Wood; Luddenden Dean, etc., Hx.

Mid W.—Bramham (Leeds F.F., 1888).

N.E.—Mulgrave Woods (F.F., 1894). Scarborough.

S.E.—Blackwood (Selby F.F., 1896).

On the ground in mixed woods. Frequent. Poisonous; odour strong; colour variable; some of its forms resemble *Amanita phalloides*.

44.—**Amanita muscaria** (L.) Fr.

S.W.—Halifax (Bolton's Hist. Fung., Tab. 46). Near Bradford ('Nat.', 1876-7). Wharncliffe Woods (* 'Nat.', 1878-9). Huddersfield (Hud. Bot. Soc., 1883). Hainworth; Saltaire (Lees' Fl.). Notton (Barnsley F.F., 1897). Goitstock (Fl. Skipt.). Lee; and Midgehole Wood, Hebden Bridge. Luddenden Dean, Hx. (G. L. Lister). Wyming Brook, and Strines, Sheffield.

Mid W.—Beckwithshaw; Ledstone Park; Horsforth; Micklefield; Camblesforth (Tr. Y.N.U., ix., p. 210). Stainor Wood; Hawkesworth; Bolton Woods; Adel (Lees' Fl.).

N.E.—Scarborough (Bot. Report, 1879). Castle Howard (F.F., 1892). Cloughton, Scarborough (H.T.S.). Egton (F.F. 1902).

S.E.—Blackwood (Selby F.F., 1896). A specimen from Grindale near Malton with pileus eleven inches across (exhibited by S. Chadwick at the Mulgrave Woods F.F., 1894).

In mixed woods, especially where birch and fir prevail; not common. Poisonous; produces intoxication, delirium, and death; 'used in Kamschatka as a narcotic.'

45. **Amanita pantherina** (DC.) Fr.

S.W.—Northdean Wood (* 'Nat.', 1877-8). Huddersfield (Hud. Bot. Soc., 1883). Goitstock (Fl. Skipt.). Hebden Bridge. Luddenden Dean, etc., Hx. (H.T.S.).

Mid W.—Beckwithshaw (Harrogate F.F.; Tr. Y.N.U., ix., p. 210). Bramham and Harewood (F.F., 1888). Stainor Wood (Selby F.F., 1896). Bolton Woods (Fl. Skipt.).

N.E.—Scarborough (Y.N.U. Bot. Report, 1879). Castle Howard (F.F., 1892). Mulgrave Woods (F.F., 1894). Egton.

S.E.—Escrick (Selby F.F., 1896).

N.W.—Masham.

In open woods and woodside pastures; generally distributed. Poisonous.

46. **Amanita excelsa** Fr.

S.W.—Halifax (Bolton's Hist. Fung., Tab. 47). Meltham Woods and Roche Abbey Valley (Lees' Fl.).

N.E.—Scarborough.

In woods, chiefly under beech. Poisonous.

[Amanita strobiliformis (Vitt.).

S.W.—The Dict. Icon. Champ. quotes Bolton's plate 47 as this species. The figure more likely represents *Amanita excelsa*.

Mid W.—Bingley Woods (Fl. Skipt.). Doubtful record].

47. **Amanita rubescens** (Pers.) Fr.

(Bolton's Hist. Fung., Tab. 27). Common in woods and plantations; generally distributed; stations where noted too numerous to specify. Edible; much appreciated as an esculent species on account of its delicious flavour.

48. **Amanita spissa** Fr.

S.W.—Nab Wood, Saltaire (H.T.S., 'Nat.', 1891, p. 279). Crimsworth Dean and Hardcastle, near Hebden Bridge.

N.E.—Scarborough.

In mixed woods. Uncommon.

49. **Amanita nitida** Fr.

S.W.—Crimsworth Dean, Hebden Bridge ('Nat.', June 1894).

50. **Amanita aspera** Fr.

S.W.—Halifax, 1790 (Bolton's Hist. Fung., Tab. 139). Luddenden Dean, Hx.

N.W.—Masham.

In woods. Rare.

Genus AMANITOPSIS Roze, 1876.

51. **Amanitopsis vaginatus** (Bull.).

Common in woods; distribution general. Edible, but not considered of much value on account of the thinness of its flesh.

Form **fulva** Schæff.

S.W.—Storthes Hall woods, etc. (Huddersfield F.F., 1895).

N.W.—Sedbergh (Exc. 1902).

Hebden Bridge. Luddenden Dean, Hx.

Dr. Cooke considers this to be a distinct species, mainly on account of its not being esculent.

52. **Amanitopsis strangulatus** Fr.

[Syn. *Amanitopsis Ceciliæ* B. & Br.].

S.W.—Roche Abbey Valley (Lees' Fl.). Goitstock, and Eller Carr, near Cullingworth. Hebden Bridge.

Mid W.—Shipley Glen; rare (Lees' Fl.).

S.E.—Pocklington (* 'Nat.', Aug. 1885, p. 308).

53. **Amanitopsis adnatus** W.G.S.

S.W.—Heaton, and Nab Woods, Bingley ('Nat.', 1891, p. 279). Notton (Barnsley F.F., 1897).

Genus LEPIOTA Pers., 1797.

54. **Lepiota procera** (Scop.).

S.W.—Halifax (Bolton's Hist. Fung., Tab. 23). Huddersfield (H.B. Soc., 1883). Bradford. Rockley (Barnsley F.F., 1897). Cadeby (F.F., 1901). Hebden Bridge. Elland Park Wood: Luddenden Dean, etc., Hx. Goitstock. Doncaster (H. H. Corbett).

S.E.—Market Weighton (* 'Nat.', 1880-1). Kirkham Abbey (* 'Nat.', Nov. 1889). Grindale (W.W.S.). Pocklington (F.F., 1893). Escrick (Selby F.F., 1896).

Mid W.—Stainor Wood, Selby (Tr. Y.N.U., ix.). Harrogate; Headingley; Hawkesworth; Brayton (Lees' Fl.). Bishop's Wood (Selby F.F., 1896). East Keswick (F.F., 1898). Ilkley (Fl. Skipt.).

N.E.—Scarborough (Y.N.U. Bot. Report, 1879). Castle Howard; Pickering (F.F., 1892). Stokesley (*1899). Mulgrave Woods (F.F., 1900). Thirsk (W. Foggitt, Y.N.U. Exc. Circ., May 1902). Egton (F.F., 1902).

N.W.—Masham.

Edible. In open woods, plantations and adjoining fields.

55. **Lepiota rachodes** (Vitt.).

S.W. Bradford; Roche Abbey Valley (Lees' Fl.). Edlington Wood (Doncaster F.F., 1891). Campsall (Sutton F.F., 1899). Well Head greenhouses, Hx.

S.E.—Firby Woods, Kirkham Abbey, abundant (* 'Nat.', Nov. 1889). Escrick (Selby F.F., 1896).

N.E.—Scarborough. Egton (W.W.S.).

Edible; appears to have a special liking for greenhouses.

56. **Lepiota excoriata** (Schæff.).

N.E.—Scarborough.

S.W.—Sprotborough and Conisborough (F.F., 1901).

57. **Lepiota Friesii** (Lasch).

MID W.—Leeds F.F., 1881 (Tr. Y.N.U., ix., p. 210).

N.E.—Mulgrave Woods (F.F., 1900).

S.W.—Potridings Wood (Cadeby F.F., 1901).

58. **Lepiota gracilenta** (Kromb.).

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

59. **Lepiota acutesquamosa** (Weinm.).

S.W.—Huddersfield, A. Clarke (exhib. Doncaster F.F., 1891). Ingham Park, Mirfield, 1891, and several succeeding years (H. Parkinson). Campsall (Sutton F.F., 1899). Hebden Bridge. Skircoat, Hx.

N.E.—Scarborough. Mulgrave Woods (F.F., 1894).

MID W.—Stainor Wood (Selby F.F., 1896). Grassington (Exc. 1900).

N.W.—Masham.

60. **Lepiota Badhami** (B. & Br.).

S.W.—Under yews, Roche Abbey Valley, Oct. 1876 (Lees' Fl.).

61. **Lepiota biornata** (B. & Br.).

S.W.—In greenhouse, Halifax. Rare.

62. **Lepiota hispida** (Lasch).

S.W.—In plantation near Longley Hall (Hud. B.S., 1883). Potridings Wood (Cadeby F.F., 1901).

N.W.—Masham.

63. **Lepiota clypeolaria** (Bull.).

MID W.—Bramham (F.F., 1888).

N.E.—Scarborough.

64. **Lepiota felina** (Pers.).

N.E.—Scarborough (Cooke's Illustr. pl. 943a, figured from these Scarborough specimens).

S.E.—Everingham (Pocklington F.F., 1893). Escrick (Selby F.F., 1896).

65. **Lepiota metulæspora** (B. & Br.).

S E.—Blackwood (Selby F.F., 1896).

66. **Lepiota cristata** (A. & S.).

S.W.—'Grows in gardens, but not common . . . Warley (Hx.) Sep., 1787' (Bolton, Tab. 7). Bingley (Lees' Fl.). Edlington (Doncaster F.F., 1891). Coxley Valley. Huddersfield (F.F., 1895). Rockley, Darton, and Hugsett (Barnsley F.F., 1897). Campsall (Sutton F.F., 1899). Luddenden Dean, Hx. Melton and Potridings Woods (Cadeby F.F., 1901). Shelley, Huddersfield. Kirklees (C.C.).

Mid W.—Studley Royal (F.F., 1881). Ilkley; Harewood, 1886 (Lees' Fl.). Bramham (F.F., 1888). Langstrothdale. Bolton Woods (Fl. Skipt.). Grassington (Exc. 1900).

N.E.—Scarborough (Y.N.U. Bot. Report, 1879). Welham Park (Castle Howard F.F., 1892). Mulgrave Woods (F.F., 1900).

Among grass on shaded roadsides, lawns, fields, and on the margins of woods. Smell strong and unpleasant.

67. **Lepiota erminea** Fr.

S.W.—Huddersfield, found in considerable quantity on the ballast heap at Deighton Corn Mills (exhibited by A. Clarke at the Selby F.F., 1896).

68. **Lepiota naucina** Fr.

N.E.—Scarborough. Egton (F.F., 1902).

69. **Lepiota cepæstipes** (Sow.).

S.W.—'Amongst the bark in pine-stove, Halifax, 1785' (Bolton's Hist. Fung., Tab. 50). Ousefleet (T. Birks, Bot. Rep., 1878). Ravensthorpe, 1890 (H. Parkinson).

Mid W.—Ilkley (P. H. Grimshaw).

N.E.—In a conservatory, Scarborough.

Pileus white or yellow.

70. **Lepiota martialis** C. & M.

N.E.—In Mr. Woodall's greenhouse, Scarborough. The species was founded on these specimens, and figured in Cooke's Illustr., Pl. 944b. Probably an introduced species.

71. **Lepiota licmophora** (B. & Br.).

S.W.—In a fernery at Bradford (Lees' Fl.). In greenhouse, Huddersfield, J. Sutcliffe (exhib. Castle Howard F.F., 1892). A. Clarke (F.F., 1895). Greenhouses at Well Head and Manor Heath, Hx.

72. **Lepiota carcharia** (Pers.).

Mid W.—Beckwithshaw (Harrogate F.F., 1881; Tr. Y.N.U., ix.). Baildon (Lees' Fl.). Bramham (F.F., 1888). Bishop's Wood (Selby F.F., 1896).

N.E.—Scarborough. Castle Howard (F.F., 1892).

S.W.—Bingley (Lees' Fl.). Pecket Wood, etc., Hebden Bridge. Northdean Wood; Luddenden Dean; Mixenden; Fixby; Heath; Elland Park Wood, etc., Hx.

S.E.—Escrick (Selby F.F., 1884; 'Nat.', Jan. 1885).

Not common. Smell strong, taste bitter.

73. **Lepiota granulosa** (Batsch).

Common in woods and heathy fields. Distribution general; has been recorded in all the county divisions. Stations too numerous to give in detail.

74. **Lepiota amianthina** (Scop.).

S.W.—'Burks and other woods about Halifax, 1788' (Bolton's Hist. Fung., Tab. 51, f. 2). Hebden Bridge. Wharncliffe Woods; Ecclesall; Wyming Brook, near Sheffield.

Mid W.—Bramham (F.F., 1888).

Bolton's Tab. 51, fig. 2, has been considered by some mycologists to represent *Lepiota granulosa*, but there cannot be much doubt as to its belonging here.

75. **Lepiota polysticta** (Berk.).

N.E.—Scarborough ('Nat.', 1880-1).

S.W.—'In old pasture fields Fixby, Lepton, and Bradley' (Hud. Bot. Soc., 1883).

N.W.—Masham, among grass near footpath.

76. **Lepiota parvannulata** (Lasch).

Mid W.—Harewood (F.F., 1888).

77. **Lepiota seminuda** (Lasch).

MID W.—Studley Royal (F.F.; Tr. Y.N.U., ix.). Bramham (F.F., 1888). Harewood (F.F., 1898).

N.E.—Scarborough.

N.W.—Masham.

In woods. Rare.

78.—**Lepiota Bucknallii** (B. & Br.).

MID W.—Studley Royal (F.F.; 'Very rare, only occurred once before in Britain,' Tr. Y.N.U., ix., p. 211).

S.W.—Potridings Wood (Cadeby F.F., 1901). Kiveton Park, near Sheffield.

79. **Lepiota mesomorpha** (Bull.).

S.W.—Fagley Woods, near Calverley, rare, Sept. 1887 (Lees' Fl.).

80. **Lepiota delicata** Fr.

MID W.—Selby (F.F., 1884; 'Nat.', Jan. 1885).

81. **Lepiota lenticulare** (Lasch).

N.W.—Masham.

GENUS ARMILLARIA Fr., 1821.

82. **Armillaria ramentacea** (Bull.).

N.E.—Scarborough.

83. **Armillaria mellea** (Vahl).

S.W.—Halifax, 1786, etc. (Bolton's Hist. Fung., Tabs. 16, 136, 140, 141).

Grows in dense fascicles about new stumps, and the base of living trees; also solitary and scattered among grass, but then the mycelium is traceable to underlying tree-roots. Decidedly parasitic and destructive. Extremely variable in appearance, so much so that it is difficult to find two tufts alike. A form was collected at Masham in 1891, with a blackish, shining stem. Edible, but tough.

Var **laricina.**

S.W.—Halifax, 1788 (Bolton's Hist. Fung., Tab. 19). Liversedge ('Nat.', 1891, p. 279).

84. **Armillaria mucida** (Schrad.).

N.E.—Scarborough.

S.E.—Boynton (W.W.S.).

GENUS TRICHOLOMA Fries, 1821.

85. **Tricholoma onychinum** Fr.

S.E.—Escrick (Selby F.F.; 'Nat.', Dec. 1896). First British record.

86. **Tricholoma equestre** (L.).

N.E.—Scarborough. In fir woods.

87. **Tricholoma sejunctum** (Sow.).

MID W.—Selby ('Nat.', Jan. 1885).

N.E.—Scarborough.

88. **Tricholoma portentosum** Fr.

N.E.—Castle Howard (exhibited at the Harewood F.F., 1888).

89. **Tricholoma fucatum** Fr.

N.E.—Scarborough. In pine woods.

90. **Tricholoma resplendens** Fr.

MID W.—Selby (F.F., 1884; 'Nat.', Jan. 1885).

S.W.—Huddersfield (F.F., 1895). Luddenden Dean, Hx.

N.E.—Scarborough.

In beech and other woods.

91. **Tricholoma spermaticum** Fr.

MID W.—Adel Dam Wood (Lees' Fl.).

N.E.—Scarborough. Egton (F.F., 1902).

N.W.—Masham.

S.E.—Allerthorpe (Pocklington F.F., 189)3.

On the ground in fir woods. Smell strong, unpleasant.

92. **Tricholoma fulvellum** Fr.

S.W.—In woods, not common, Bingley (Lees' Fl.).

93. **Tricholoma flavo-brunneum** Fr.

MID W.—Selby (F.F., 1884 and 1896). Barlow Woods (Lees' Fl.).

N.E.—Mulgrave Woods (F.F., 1894 and 1900). Scarborough.

S.W.—Goitstock. Hardcastle, and High Greenwood, near Hebden Bridge. Luddenden Dean, Hx.

N.W.—Masham. In mixed woods.

94. **Tricholoma albo-brunneum** (Pers.).

N.E.—Scampton. Bulmer (exhibited at the 1888 F.F.). Scarborough.

Mid W.—Bramham (F.F., 1888). Esholt (H.T.S.).

S.E.—Everingham (Pocklington F.F., 1893).

N.W.—Masham.

S.W.—Luddenden Dean, Hx.

95. **Tricholoma ustulum** Fr.

S.W.—Pecket Wood, Hebden Bridge.

96. **Tricholoma stans** Fr.

N.E.—Mulgrave Woods (F.F., 1900). Egton (F.F., 1902).

S.W.—Crinsworth Dean, Hebden Bridge.

97. **Tricholoma frumentaceum** Fr.

N.E.—Robin Hood's Bay (Whitby F.F., 1894).

98. **Tricholoma rutilans** (Schæff.).

Mid W.—Bramham Park, 1786 (Bolton's Hist. Fung., Tab. 14). Beckwithshaw (F.F., 1881). Blubberhouses (* 'Nat.', 1884-5). Selby (F.F., 1884; 'Nat.', Jan. 1885). Adel; Barlow (Lees' Fl.). Bramham and Harewood (F.F., 1888). Grassington (Exc. 1900).

S.W.—Northdean Wood, Hx. (* 'Nat.', 1877-8). Wharncliffe Woods (* 'Nat.', 1878-9). Meltham Woods (Hud. Bot. Soc., 1883). Heaton and Bingley (Lees' Fl.). Huddersfield (F.F., 1895). Sutton (F.F., 1899). Melton (Cadeby F.F., 1901). Goitstock. Several woods near Hebden Bridge.

N.E.—Scarborough. Castle Howard (F.F., 1892). Arncliffe Woods (Whitby F.F., 1894). Mulgrave Woods (F.F., 1900).

S.E.—Escrick, and Blackwood (Selby F.F., 1896).

On the ground in woods among rotting branches; also on tree stumps, chiefly pine; and in sawdust. Not uncommon.

99. **Tricholoma variegatum** (Scop.).

S.W.—Luddenden Dean, Hx. Denby Dale (Huddersfield F.F., 1895). Cullingworth.

N.E.—Scarborough.

Mid W.—Harewood (F.F., 1898).

100. **Tricholoma luridum** (Schæff.).

S.E.—Skipwith ('Nat.', 1878-9).

N.E.—Scarborough (Bot. Report, 1879).

Mid W.—Camblesforth (Lees' Fl.).

101. **Tricholoma columbella** Fr.

S.E.—Everingham (Pocklington F.F., 1893).

102. **Tricholoma scalpturatum** Fr.

S.E.—Skipwith ('Nat.', 1878-9).

N.E.—Castle Howard (F.F., 1892).

103. **Tricholoma imbricatum** Fr.

S.W.—Roche Abbey Valley (Lees' Fl.). Ingham Park, Mirfield (H. Parkinson).

N.E.—Scarborough.

Mid W.—Bramham and Harewood (F.F., 1888). Langstrothdale.

104. **Tricholoma vaccinum** (Pers.).

N.E.—In fir woods. Arncliffe (Whitby F.F., 1894). Scarborough.

105. **Tricholoma immundum** (Berk.).

S.W.—In pastures, rare; Huddersfield (Lees' Fl.).

106. **Tricholoma murinaceum** (Bull.).

S.W.—Huddersfield; Heaton Woods (Lees' Fl.). Mollicar Wood, Huddersfield.

N.E.—Mulgrave Woods (F.F., 1894 and 1900). Scarborough.

107. **Tricholoma terreum** (Schæff.).

Mid W.—Studley Royal and Harrogate (F.F., 1881). Adel, 1876 (Lees' Fl.). Bramham (F.F., 1888). Langstrothdale. Very common.

N.E.—Welham Park (Castle Howard F.F., 1892). Mulgrave Woods, abundant (F.F., 1894 and 1900).

S.E.—Everingham (Pocklington F.F., 1893).

S.W.—Melton (Cadeby F.F., 1901). Crimsworth Dean, Hebden Bridge.

N.W.—Masham.

Not uncommon in beech and fir woods.

Var. **orirubens** Quel.

N.E.—Scarborough.

108. **Tricholoma saponaceum** Fr.

Mid W.—Studley Royal. Selby (F.F., 1884; 'Nat.', Jan. 1885). Hawkesworth (Fl. Skipt.). Blackwood (Selby F.F., 1896).

S.W.—Thorne Waste (Lees' Fl.). Goitstock (Fl. Skipt.). Hebden Bridge. Luddenden Dean; Northdean Wood, Hx.

N.E.—Castle Howard (F.F., 1892). Scarborough.

N.W.—Masham.

Frequent, in mixed woods. Smell peculiar; more soapy than nitrous.

109. **Tricholoma cuneifolium** Fr.

N.E.—Castle Howard (F.F., 1892).

S.W.—Pasture, Seven Arches, Bingley (H.T.S., 'Nat.', Sep. 1891).

Var. **cinereo-rimosum** Batsch.

S.W.—Crimsworth Dean, Hebden Bridge. Under hedge-row, garden, Halifax (J. W. Sutcliffe).

110. **Tricholoma crassifolium** (Berk.).

N.E.—Scarborough ('Nat.', 1880-1).

S.W.—Keighley (Lees' Fl., p. 812).

111. **Tricholoma virgatum** Fr.

N.E.—Mulgrave Woods (F.F., 1900).

112. **Tricholoma sulphureum** (Bull.).

S.W.—Nab Wood, Saltaire (Lees' Fl.).

N.E.—Castle Howard (F.F., 1892). Scarborough. Arncliffe Woods (Whitby F.F., 1894).

Poisonous. In woods, not common.

113. **Tricholoma bufonium** (Pers.).

S.W.—Huddersfield (Hud. Bot. Soc., 1883). Generally distributed throughout the district.

Mid W.—In fir wood, Langstrothdale.

N.E.—Scarborough.

114. **Tricholoma lascivum** Fr.

MID W.—Selby (F.F., 1884; 'Nat.', Jan. 1885).

115. **Tricholoma inamœnum** Fr.

S.E.—Blackwood (Selby F.F., 1896).

N.E.—Mulgrave Woods (Whitby F.F., 1900).

S.W.—Luddenden Dean, Hx. (H.T.S.).

116. **Tricholoma fallax** Peck.

N.E.—In fir wood, Scarborough. Cooke's Illustr. pl. 1151a, from the Scarborough specimens. First British record.

117. **Tricholoma ionides** (Bull.).

S.W.—'Grows under close plantations of fir about Halifax, 1787' (Bolton's Hist. Fung., Tab. 41fb). Among dead leaves, Cromwell Wood, Hx.

MID W.—Ilkley; Hawkesworth; Goole (Lees' Fl., p. 812).

118. **Tricholoma carneum** (Bull.).

MID W.—Hambleton, near Selby (Lees' Fl.). Fields near Stainor Wood, and Bishop's Wood (Selby F.F., 1896). Harewood (F.F., 1898).

N.E.—Welham Park, Malton; Castle Howard (F.F., 1892). Scarborough. Mulgrave Woods (Whitby F.F., 1900).

S.W.—Denby Dale (Huddersfield F.F., 1895). Sutton (F.F., 1899). Cadeby (F.F., 1901). Hebden Bridge. Ovenden; Luddenden Dean; Stainland; Hx.

N.W.—Masham.

Frequent in pastures and path-sides in woods.

119. **Tricholoma gambosum** Fr.

N.E.—Scarborough (Y.N.U. Bot. Report, 1879).

S.W.—Carr Pit ballast heap, and Shelley, near Huddersfield (Hud. Bot. Soc., 1883). Bingley; Adlingfleet (Lees' Fl.). Elland; Coley; Skircoat, etc., Hx.

MID W.—Bramhope; Hawkesworth (Lees' Fl.). Brennand Valley, Bowland.

Frequent in pastures during spring. A fine substantial edible species; may be dried and stored for future use.

120. **Tricholoma albellum** Fr.

S.W.—Goitstock Wood, near Cullingworth (Fl. Skipt.). Rare.

121. **Tricholoma tigrinum** (Schæff.).

S.W.—Liversedge. Rare.

N.E.—Scarborough (Y.N.U. Bot. Report, 1879).

122. **Tricholoma boreale** Fr.

S.W.—Crimsworth Dean, Hebden Bridge. Rare.

123. **Tricholoma arcuatum** (Bull.).

N.E.—Castle Howard (F.F., 1892).

Mid W.—Harewood (F.F., 1898). In pasture.

S.W.—Among grass, Skircoat Moor, Hx. (H.T.S.).

124. **Tricholoma orienum** Fr.

S.W.—High Greenwood, near Hebden Bridge. Rare.

125. **Tricholoma album** (Schæff.).

S.W.—Halifax, 1791 (Bolton's Hist. Fung., Tab. 153). Cottingley (H.T.S., 'Nat.', Sep, 1891).

126. **Tricholoma leucocephalum** Fr.

S.W.—Skircoat Moor, Hx. (J. W. Sutcliffe). Melton Woods, growing through the flattened remains of a dead hedgehog (Cadeby F.F., 1901).

127. **Tricholoma personatum** Fr.

S.W.—Roche Abbey Valley; Lepton; Eccleshill, etc. (Lees' Fl.). Mirfield. Southowram. Many places about Hebden Bridge. Barkisland; Cragg Vale; Lightcliffe, Hx. Eller Carr, etc., Cullingworth. Cadeby (F.F., 1901). Ravensthorpe (H. Parkinson). Ecclesall, near Sheffield.

Mid W.—Meanwood; Harrogate; Hawkesworth (Lees' Fl.).

N.E.—Scarborough. Bulmer. Mulgrave Woods (Whitby F.F., 1900). Thirsk (W. Foggitt, Y.N.U. Exc. Circ., May 1902).

N.W.—Masham.

In pastures, meadows, margins of woods, etc. Common. Edible.

128. **Tricholoma nudum** (Bull.).

S.W.—Halifax, 1790 (Bolton's Hist. Fung., Tab. 147). Wharncliffe; Cantley; Roche Abbey Valley (Lees' Fl.).

Edlington (Doncaster F.F., 1891). Liversedge. Goitstock. Fixby, Hx. (U. Bairstow). Kebroyd, Hx., 1901 (A. Clarke). Cadeby (F.F., 1901). Castle Hill Side, and several other places about Huddersfield.

MID W.—Studley Royal (F.F., 1881). Harewood (F.F., 1888). Bramham and Adel (Lees' Fl.).

N.E.—Scarborough. Castle Howard (F.F., 1892).

In pastures and on margins of woods. Edible.

129. **Tricholoma cinerascens** (Bull.).

MID W.—Barlow Woods (Lees' Fl.).

S.W.—Hardcastle, Hebden Bridge.

130. **Tricholoma panæolum** Fr.

MID W.—Studley Royal (Tr.Y.N.U., ix.). Baildon (Lees' Fl.).

S.W.—Cottingley (Lees' Fl.). Denby Dale (Huddersfield F.F., 1895). Cullingworth. Hebden Bridge. Luddenden Dean, Hx.

N.E.—Scarborough.

N.W.—Masham.

In pastures.

131. **Tricholoma grammopodium** (Bull.).

S.W.—Carr Pit ballast heap; Mollicar Wood (Hud. Bot. Soc., 1883). Goole Moor (Lees' Fl.). In rich pasture, near dung-heap, Ovenden, Hx. Hardcastle, Hebden Bridge. Honley.

MID W.—Hawkesworth (Lees' Fl.).

N.E. Scarborough. Field near Arncliffe Woods (Whitby F.F., 1894). Mulgrave Woods (F.F., 1900). Egton (F.F., 1902).

132. **Tricholoma melaleucum** (Pers.).

MID W.—Temple Hurst (Lees' Fl.). Harewood (F.F., 1888). Stainor Wood (Selby F.F., 1896).

N.E.—Scarborough. Castle Howard (F.F., 1892). Mulgrave Woods (Whitby F.F., 1900).

S.W.—Denby Dale (Huddersfield F.F., 1895). Hebden Bridge. Luddenden Dean, Hx.

S.E.—Escrick (Selby F.F., 1896).

N.W.—Masham.

Among grass in open woods. Not common.

Var. **porphyroleucum** Fr.

S.E.—Pocklington (F.F., 1893).

S.W.—High Greenwood, near Hebden Bridge. Potridings Wood (Cadeby F.F., 1901). Among grass. Sprotborough (* 'Nat.', April, 1892).

133. **Tricholoma brevipes** (Bull.).

S.W.—Farnley Tyas, etc., near Huddersfield (Hud. Bot. Soc., 1883). Near Fixby (Huddersfield F.F., 1895). Cullingworth. Honley.

N.E.—Scarborough.

Mid W.—Otley Chevin (H.T.S.).

In fields and open woods. Edible.

134. **Tricholoma humile** Fr.

N.E.—Scarborough. Castle Howard (F.F., 1892).

S.W.—Denby Dale (Huddersfield F.F., 1895). Skircoat; Copley; Ovenden, etc., Hx. Several places about Hebden Bridge. Honley.

N.W.—Masham.

S.E.—Hornsea (A. R. Warnes).

Frequent in gardens, path sides, etc.

Var. **blandum** Berk.

S.W.—Fixby pastures, Hx.

135. **Tricholoma subpulverulentum** (Pers.).

S.W.—Several places about Huddersfield (Hud. Bot. Soc., 1883). Hirst fields, near Hebden Bridge. Luddenden Dean, Hx. (H.T.S.).

In pastures. Not common.

136. **Tricholoma sordidum** Fr.

N.E.—Scarborough. Castle Howard (F.F., 1892). Egton.

S.W.—In fields, Cullingworth. On newly manured garden-bed, and among grass near dunghill, Liversedge. On dunghill, Hebden Bridge (H.T.S.). Skircoat; Luddenden Dean, Hx.

Mid W.—Near Stainor and Bishops Woods (Selby F.F., 1896).

137. **Tricholoma pædidum** Fr.

N.E.—Scarborough.

GENUS CLITOCYBE Fr.

138. **Clitocybe nebularis** (Batsch).

S.W.—'Grows in the dry parts of woods, and in pastures about Halifax; not infrequently' (Bolton's Hist. Fung., Tab. 40). Bolton's figure is considered by some authorities to represent *Clitocybe clavipes*, by others *Clitocybe nebularis*. Edlington Woods (Doncaster F.F., 1891). High Greenwood, and Pecket Wood, near Hebden Bridge. Storthes Hall Woods, Huddersfield.

N.E.—Scarborough (Y.N.U., Bot. Report, 1879). Mulgrave.

S.E.—Blackwood (Selby F.F., 1884).

MID W.—Meanwood* Wood (Tr. Y.N.U., ix.). Wistow (Lees' Fl.). Bramham (F.F., 1888). Stainor Wood (Selby F.F., 1896).

On the ground in open woods; frequent. A fine edible species.

139. **Clitocybe clavipes** (Pers.).

MID W.—Selby (F.F., 1884). Bramham (F.F., 1888). Langstrothdale ('Nat.', May 1891, as *Collybia*). Bishop's Wood (Selby F.F., 1896).

N.E.—Scarborough. Bulmer. Castle Howard (F.F., 1892).

S.W.—Sandal Beat (Doncaster F.F., 1891).

On the ground in woods.

140. **Clitocybe hirneola** Fr.

S.W.—Owston (Sutton F.F., 1899).

141. **Clitocybe venutissima** Fr.

S.W.—Among larch leaves, Hardcastle, Hebden Bridge.

142. **Clitocybe odora** (Bull.).

MID W.—Horton-in-Ribblesdale (H.T.S., 'Nat.', 1880-1). Harewood (F.F., 1888).

S.W.—Possibly Bolton's Tab. 12, *Ag. cæruleus*, belongs here. Heaton Woods (Lees' Fl.). Ovenden, Hx. (G. L. Lister). Sutton (F.F., 1899). Bingley (Fl. Skipt.).

N.E.—Castle Howard (F.F., 1892). Mulgrave Woods (F.F., 1900).

143. **Clitocybe Trogii** Fr.

N.E.—Mulgrave Woods (Whitby F.F., 1900).

144. **Clitocybe cerussata** Fr.

N.E.—Ganton.

Mid W.—Bramham (F.F., 1888).

S.E.—Allerthorpe (Pocklington F.F., 1893).

S.W.—Savin royd (Barnsley F.F., 1897). Cragg Vale, Hx.

145. **Clitocybe phyllophila** Fr.

S.W.—Huddersfield (Hud. Bot. Soc., 1883). Shipley Glen (Lees' Fl.). Sandal Beat (Doncaster F.F., 1891). Goitstock (Fl. Skipt.).

Mid W.—Meanwood Wood; Bingley (Tr. Y.N.U., ix.). Selby (F.F., 1884). Carlton Woods (Lees' Fl.). Bramham and Harewood (F.F., 1888).

N.E.—Scarborough. Arncliffe (Egton F.F., 1902).

S.E.—Skipwith (Goole Sci. Soc., 'Nat.', 1878-9).

Frequent in beech woods among dead leaves.

146. **Clitocybe pithyophila** Fr.

S.W.—Fixby Hall Woods. 'Grows in close plantations, particularly those of fir or larch' (Bolton, Tab. 17). This figure has been quoted as *Clitocybe candicans* and also as *Clitocybe difformis*. 'This species (*Clitocybe difformis*) must be excluded from the British list, the figure of Bolton, Tab. 17, supposed to be this sp. is *Clitocybe pithyophila*' (Mass. Brit. Fung. Fl., vol. 2, p. 441). The Dict. Icon. Champign. (1894) gives it as *Omphalia umbilicata*.

N.E.—Scarborough.

147. **Clitocybe candicans** (Pers.).

Mid W.—Horsforth (Tr. Y.N.U., ix.).

N.E.—Scarborough.

S.W.—Heaton, near Bradford (H.T.S., 'Nat.', 1880-1). Allerton; Birstall (Tr. Y.N.U., ix.). Hebden Bridge. Luddenden Dean; Lightcliffe, Hx.

S.E.—Escrick (Selby F.F., 1896).

Common in woods, among dead leaves, in late autumn.

148. **Clitocybe dealbata** (Sow.).

N.E.—Scarborough (Bot. Report, 1879).

Mid W.—Selby (F.F., 1884). Brayton (Lees' Fl.).

S.W.—Thornes Park, Wakefield (Lees' Fl.). Cullingworth. High Greenwood, and Pecket Wood, near Hebden Bridge. Luddenden Dean; Lightcliffe, Hx.

Fairly common in pastures and open woods. Edible.

149. **Clitocybe gallinacea** (Scop.).

N.E.—Scarborough.

Mid W.—Harewood (F.F., 1888).

N.W.—Masham.

In pastures and meadows under trees, or in open woods.

150. **Clitocybe aggregata** (Schæff.).

S.W.—At the base of *Sambucus nigra*, garden, Huddersfield (A. Clarke).

151. **Clitocybe fumosa** (Pers.).

Mid W.—Studley Royal (F.F., 1881). Selby (F.F., 1884). Bramham and Harewood (F.F., 1888).

S.W.—Waste ground, Bradford, 1880 (Lees' Fl.). Shelley (Hud. Bot. Soc., 1883). Hugsett (Barnsley F.F., 1897).

In woods, not common.

152. **Clitocybe tumulosa** (Kalchbr.).

Mid W.—Bishop's Wood (Selby F.F., 1896).

153. **Clitocybe subdecastes** Cke. & Mass.

S.W.—Notton (Barnsley F.F., 1897).

154. **Clitocybe opaca** (With.).

S.W.—Shipley Glen (H.T.S., 'Nat.', 1880-1). Beneath the wood floor of an old building, Bradford (B. Illingworth, 'Nat.', Sep. 1891).

155. **Clitocybe gigantea** (Sow.) [= **Paxillus giganteus** Fr.].

S.W.—There is an unpublished drawing by Bolton in the British Museum (Natural History) n. 1172, named *Agaricus maximus*, which is considered to represent the above species. It is accompanied by the following note, 'In several meadows

in the neighbourhood of Halifax, this present year 1793, in the months of August and September. I find no description or figure that will agree properly with it. . . . . Some I measured more than a foot diameter' (Bolton)

156. **Clitocybe maxima** Fr.

MID W.—Leeds district (Lees' Fl.).

S.E.—Escrick (Selby F.F., 1896).

N.W.—Masham.

S.W.—Bare ground under trees, Goitstock.

157. **Clitocybe infundibuliformis** (Schæff.).

Common among grass and dead leaves in open woods. Has been recorded from all the divisions.

In the Dictionnaire Iconographique Champignons, Bolton's Tab. 59, is referred to this species; other authorities consider it to represent *Clitocybe brumalis*.

158. **Clitocybe geotropa** (Bull.).

S.W.—Fixby pastures (Hud. Bot. Soc.). A fine specimen was found with pileus 6 in. diam. Cullingworth.

N.E.—Scarborough.

MID W.—Slaidburn; Barwick-in-Elmet; Gateforth; Baildon (Lees' Fl.). Langstrothdale.

N.W.—Masham.

159. **Clitocybe gilva** (Pers.).

S.W.—Halifax. The Dict. Icon. Champ. refers Bolton's, Tab. 22, to this species. It is doubtful. This Tab. is not referred to by either Fries or Saccardo.

N.E.—Scarborough.

160. **Clitocybe inversa** (Scop.).

N.E.—Castle Howard (F.F., 1892).

161. **Clitocybe flaccida** (Sow.).

N.E.—Scarborough (exhibited at Leeds F.F., 1881).

162. **Clitocybe tuba** Fr.

MID W.—Selby (F.F., 1884).

N.E.—Scarborough.

S.W.—Fixby, Hx.

On dead leaves in woods.

163. **Clitocybe ericetorum** (Bull.).

MID W.—Selby.

S.W.—Shipley Glen; Bingley Woods (Lees' Fl.). Heptonstall, Hebden Bridge.

N.W.—Masham.

164. **Clitocybe cyathiformis** Fr.

S.W.—Halifax, 1790 (Bolton's Hist. Fung., Tab. 145). Elland Park Wood; Luddenden Dean; North Wood, Lightcliffe, Hx.

N.E.—Scarborough.

MID W.—Meanwood; Brayton; Bishop's Wood (Lees' Fl.). Langstrothdale. Grassington (Exc. 1900).

S.E.—Escrick (Selby F.F., 1896).

165. **Clitocybe brumalis** Fr.

S.W.—Huddersfield (Hud. Bot. Soc.). Steeton (Lees' Fl.). Liversedge. Several woods about Hebden Bridge. Goitstock. Woods at Luddenden Dean; Northdean; Elland Park; Ovenden; Skircoat; Cragg Vale; Fixby, etc., Hx. Woods near Sheffield.

MID W.—Bramham and Harewood (F.F., 1888).

N.E.—Cloughton, Scarborough (H.T.S., 'Nat.', Jan. 1892). Arncliffe Woods (Whitby F.F., 1894). Mulgrave (F.F., 1900).

N.W.—Masham.

Common in woods among dead grass and leaves.

166. **Clitocybe metachroa** Fr.

MID W.—Harrogate (F.F., 1881). Selby (F.F., 1884).

S.W.—Nab Wood, Saltaire (Lees' Fl.). Sandal Beat, Doncaster (F.F., 1891). Hebden Bridge.

N.E.—Scarborough. Mulgrave Woods (Whitby F.F., 1900).

167. **Clitocybe ditopoda** Fr.

N.E.—Ganton.

S.W.—Hebden Bridge. Northdean Wood, Hx. (U. Bairstow).

168. **Clitocybe fragrans** (Sow.).

Common in woods and poor, mossy pastures; distribution general. At the Cadeby F.F. it was plentiful in Potridings wood, but every sporophore was attacked by the parasitic

mould *Sporodinia aspergillus*. In poor pastures in rings, Luddenden Dean, Hx. (H.T.S.).

169. **Clitocybe angustissima** (Lasch.).

Brought to the Leeds F.F., 1881 (Tr. Y.N.U., ix.).

[Clitocybe Sadleri (Berk.).

N.E.—Scarborough. On tree stump. This is now generally admitted to be nothing more than an abnormal form of *Hypholoma fasciculare*, in which the gills remain sterile, and hence pale in colour. It was founded on specimens growing on an oak tub in a conservatory, Edinburgh].

Genus LACCARIA B. & Br., 1883.

170. **Laccaria bella** (Pers.).

N.E.—Scarborough ('Nat.', 1880-1). Two specimens of this very rare fungus were found in Raincliffe Wood. Castle Howard (F.F., 1892).

Mid W.—Shipley Glen (Lees' Fl.).

S.W.—Hebden Bridge. Northdean Wood, Hx.

N.W.—Masham.

171. **Laccaria laccata** (Scop.). (Bolton, Tab. 64).

Extremely common and widely distributed; grows, more or less, in almost every damp wood. Most variable in form and colour.

Var. **amethystina** Bolt.

S.W.—Halifax, 1788 (Bolton's Hist. Fung., Tab. 63). Also an unpublished figure, deep blue, in the British Museum (Nat. Hist.) collection, n. 224, which Bolton named *Ag. indigoferus*. Hebden Bridge. Luddenden Dean, Hx. Anston, near Sheffield. Storthes Hall Woods, etc., Huddersfield.

N.E.—Castle Howard (F.F., 1892). Arncliffe Woods (F.F., 1894). Mulgrave Woods (F.F., 1900).

Var. **tortila** Bolt.

S.W.—'Grows in rich garden-mould, about the roots of such plants and shrubs as afford much shade.' Halifax (Bolton's Hist. Fung., Tab. 41, f.a.). Much smaller than type.

Mid W.—Grassington (Exc. 1900).

GENUS COLLYBIA Fr., 1821.

172. **Collybia radicata** (Bull.).

About old stumps in shaded places, penetrating deeply by a tough, gradually tapering, tail-like root. Common; has been met with at all the forays, and is recorded from all the county divisions.

173. **Collybia longipes** (Bull.).

S.W.—On old stumps. Not common. Apperley; Bingley (Lees' Fl.).

174. **Collybia platyphylla** Fr.

MID W.—Selby (F.F., 1885). Stainor and Bishop's Woods (F.F., 1896).

S.W.—Sandal Beat (Doncaster F.F., 1891). Huddersfield (F.F., 1895). Hebden Bridge. Northdean Wood; Callis Wood, Erringden; Elland Park Wood; North Wood, near Lightcliffe; Luddenden Dean, Hx. Blackwood (Selby F.F., 1896). Hugsett, Stainborough and Notton (Barnsley F.F., 1897). Ravensthorpe (H. Parkinson). Bingley (Lees' Fl.).

N.E.—Scarborough. Castle Howard (F.F., 1892). Mulgrave Woods (F.F., 1900).

S.E.—Everingham (Pocklington F.F., 1893).

Frequent in woods among decaying leaves. Springs from an extensively creeping, anastomosing, white, rooting, cord-like mycelium which spreads in the humus beneath the last fall of leaves.

175. **Collybia fusipes** (Bull.).

MID W.—Hambleton (Bot. Report, 1878). Beckwithshaw (F.F., 1881; Tr. Y.N.U.). Harewood (F.F., 1898). Shipley Glen (Lees' Fl.).

S.W. -Nab Wood, Bingley (H.T.S., 'Nat.', 1880-1). Birstall; Roche Abbey Valley (Lees' Fl.). Coxley Valley. Huddersfield (F.F., 1895). Ovenden; Northdean Wood, Hx.

N.E.—Scarborough. Castle Howard (F.F., 1892).

S.E.—Escrick Woods (Selby F.F., 1896).

On or near stumps, fallen trunks, etc. Edible.

Var. **œdematopa** (Schæff.).

S.W.—Rough Hey Wood, Norland, Hx.

176. **Collybia maculata** (A. & S.).

Frequent in moist mixed woods and generally distributed; has been met with at all the forays. Very common in the woods about Halifax, Huddersfield, etc.

177. **Collybia fodiens** (Kalchb.).

S.W.—Sutton (F.F., 1899).

178. **Collybia distorta** Fr.

Mid W.—Bramham (F.F., 1888). Esholt (H.T.S.).

N.E.—Castle Howard (F.F., 1892).

S.W.—High Greenwood, near Hebden Bridge. Bingley Woods (Fl. Skipt.).

179. **Collybia butyracea** (Bull.).

N.E.—Scarborough (Bot. Report, 1879). Cloughton, Scarborough (H.T.S., 'Nat.', Jan. 1892). Mulgrave Woods (F.F., 1894 and 1900).

Mid W.—Beckwithshaw; Meanwood (F.F., 1881). Selby (F.F., 1884). Carlton (Lees' Fl.). Bramham (Harewood F.F., 1888). Stainor and Bishop's Woods (Selby F.F., 1896).

S.W.—Shipley Glen (Lees' Fl.). Ovenden, Hx. (G. L. Lister, 1891). Hebden Bridge. Northdean Wood; Luddenden Dean; Lightcliffe, Hx. Several woods about Huddersfield. Edlington Woods (Doncaster F.F., 1891). Melton and Potridings Woods (F.F., 1901). Goitstock. Woods near Sheffield.

S.E.—Escrick and Blackwood (Selby F.F., 1896).

N.W.—Masham.

Frequent among grass and dead leaves in woods.

180. **Collybia velutipes** (Curt.).

S.W.—Halifax, Feb. 1st, 1789 (Bolton's Hist. Fung., Tab. 135).

Common on stumps, and on living trees, everywhere; sometimes forming immense bundles. Has been noted at all the forays, and recorded for all the divisions. Remarkable for its power of withstanding strong frost. May be met with all the

year round. A tuft was found growing on an old clothes-dolly in an out-kitchen, Hx., 1899.

181. **Collybia vertirugis** (Cke.).

N.E.—Scarborough.

Mid W.—Pool, 1887 (Lees' Fl., p. 812).

182. **Collybia stipitaria** Fr.

S.W.—Near Keighley; Roche Abbey Valley (Lees' Fl.).

183. **Collybia confluens** (Pers.).

Mid W.—Selby (F.F., 1884). Adel; Hawkesworth; Bishop's Wood (Lees' Fl.). Harewood (F F., 1888). Grassington (Exc. 1900).

S.W.—Thackley (Lees' Fl.). Sandal Beat (Doncaster F.F., 1891). Campsall (Sutton F.F., 1899). Potridings Wood (Cadeby F.F., 1900).

N.E.—Scarborough. Castle Howard (F.F., 1892). Mulgrave Woods (F.F., 1894 and 1900).

S.E.—Everingham (F.F., 1893). Escrick (Selby F.F., 1896). Frequent on soil in woods among dead leaves.

184. **Collybia ingrata** (Schum.).

N.E.—Scarborough.

185. **Collybia conigena** (Pers.).

N.E.—Scarborough.

S.W.—Sutton (F.F., 1899).

N.W.—Masham.

In pine woods, growing on cones and among pine leaves.

186. **Collybia cirrhata** (Schum.).

N.E.—Scarborough (G.M., 'Nat.' 1880-1). Mulgrave (F.F., 1894).

Mid W.—Meanwood (F.F., 1881).

S.W.—Edlington (Doncaster F.F., 1881). Sutton (F.F., 1899).

187. **Collybia tuberosa** (Bull.).

Common in moist woods on the débris of species of dead Russula and other Agarics. Has been met with at nearly all the forays, and is recorded for each county division.

188. **Collybia racemosa** (Pers.).

S.W.—Goitstock (T. Hebden in Fl. Skipt.).

189. **Collybia thelephora** (Cke. & Mass.).

N.E.—Scarborough. In partly dried up Sphagnum bogs.

The species was founded on specimens growing in the bog near the race course (Cooke's Illustr., pl. 1167).

190. **Collybia leucomyosotis** (Cke. & Sm.).

S.W.—On Sphagnum in bogs, Goitstock (T. Hebden in Fl. Skipt.).

191. **Collybia xanthopoda** Fr.

N.E.—Scarborough. In pine woods, etc.

S.W.—Huddersfield (F.F., 1895).

192. **Collybia nitellina** Fr.

N.E.—Among grass near paths in pine woods, Scarborough.

S.E.—Allerthorpe (Pocklington F.F., 1893).

193. **Collybia succinea** Fr.

N.E.—Scarborough. Among grass under trees in mixed woods.

194. **Collybia nummularia** (Bull.).

N.E.—Scarborough.

S.W.—Sutton (F.F., 1899). Luddenden Dean, Hx. Melton; Potridings Wood (Cadeby F.F., 1901).

N.W.—Masham. Sedbergh (*1902). Among decaying grass and leaves.

195. **Collybia esculenta** (Wulf).

N.E.—Scarborough.

N.W.—Bramham (F.F., 1888).

In pastures, open woods, etc.

196.—**Collybia tenacella** (Pers.).

N.E.—Scarborough. In pine woods among the decaying leaves.

197. **Collybia acervata** Fr.

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

S.W.—Melton (Cadeby F.F., 1901).

N.W.—Masham.

At the base of pine trunks, on fallen pine logs, etc.

198. **Collybia dryophila** (Bull.).

Common in woods among dead leaves. Distribution general. Has been met with at every foray and recorded for all the county divisions.

There are several forms.

199. **Collybia aquosa** (Bull.).

N.E.—Arncliffe Woods (Whitby F.F., 1894).

200. **Collybia clavus** (L.).

[S.W.—Most likely Bolton's Tab. 39, f. B. *Agaricus clavus* L. (not of Bulliard, as intimated in Lees' Fl., p. 671) represents *Mycena acicula*. We cannot say definitely that it does, though several authorities who have dealt with the matter place it there]. Pecket Wood, Hebden Bridge, 1894.

N.W.—Masham.

201. **Collybia ocellata** Fr.

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

202. **Collybia muscigena** (Schum.).

S.W.—Norland, Hx., 1891. On mossy ground in a wood (exhibited at the Doncaster F.F., 1891).

203. **Collybia rancida** Fr.

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

On the ground, about fallen tree trunks and stumps. Very strong smelling.

204. **Collybia plexipes** Fr.

S.W.—Ramsden Wood, Ovenden ; Rough-Hey Wood, Norland, Hx. On tree stumps.

205. **Collybia atrata** Fr.

N.E.—Scarborough, on the ground in open places.

206. **Collybia ambusta** Fr.

N.E.—Scarborough. S.E.—Blackwood (Selby F.F., 1896).

S.W.—Goitstock, near Bingley (Fl. Skipt.). Luddenden Dean, Hx. Cadeby (F.F., 1901).

N.W.—Masham.

Generally on scorched ground among the charred remains of branches, etc.; occasionally among decaying bracken.

207. **Collybia clusilis** Fr.

S.W.—Among Sphagnum on the Wadsworth and Saltonstall Moors, Hx., June 1901. Always in the company of crowds of *Pholiota mycenoides*.

MYCENA Pers., 1797.

208. **Mycena pelianthina** Fr.

S.W.—Northowram, Halifax, 1787 (Bolton's Hist. Fung., Tab. 4, f. 1.).

N.E.—Scarborough. Castle Howard (F.F., 1892).

209. **Mycena balanina** (Berk.).

N.E.—Scarborough. Arncliffe and Mulgrave Woods (F.F., 1894).

210. **Mycena elegans** Pers.

N.E.—Castle Howard (F.F., 1892). Owston (Sutton F.F., 1899).

211. **Mycena olivaceo-marginata** Massee.

S.W.—Huddersfield (F.F., 1895). Among short grass, Savile Park, Hx. (H.T.S., 1898).

The original specimens were found on lawns at Kew.

212. **Mycena rosella** Fr.

Mid W.—Beckwithshaw (F.F., 1881).

N.E.—Scarborough, among moss and leaves in pine woods.

S.E.—Boynton (W.W.S.).

213. **Mycena strobilina** Fr.

Var. **coccinea** Sow.

N.E.—Staithes (* 'Nat.', April, 1898).

214. **Mycena pura** Pers.

S.W.—Halifax, 1786. Bolton's Tab. 36 is considered to be a red form of this sp. Shelley (Hud. Bot. Soc., 1883). Allerton (Lees' Fl.). Sutton (F.F., 1899). Potridings Wood (Cadeby F.F., 1901).

MID W.—Studley Royal (F.F., 1881). Selby (F.F., 1884). Bramham (F.F., 1888). Shipley Glen (Lees' Fl.).

S.E.—Grindale (W.W.S. 'Nat.', June 1889). Escrick (Selby F.F., 1896).

N.E.—Scarborough. Mulgrave Woods (Whitby F.F., 1894 and 1900). Staithes (* 'Nat.', April 1898). Egton Bridge (F.F., 1902).

Frequent in woodside meadows and grassy woods. Variable in colour. Tastes and smells like radish.

215. **Mycena pseudopura** (Cke.).

N.E.—Scarborough. Mulgrave Woods (Whitby F.F., 1894).

S.W.—Goitstock.

216. **Mycena zephira** Fr.

S.W.—Among dead leaves, Goitstock Wood.

217. **Mycena adonis** (Bull.).

MID W.—Pasture on Baildon Moor (H.T.S., 'Nat.', Sep. 1891).

218. **Mycena luteo-alba** (Bolton).

S.W.—Halifax (Bolton's Hist. Fung. Tab., 38, f. 1). Common in the woods about Hx. in Bolton's time. Huddersfield (F.F., 1895). Cottingley and Goitstock (H.T.S., 'Nat.', Sep. 1891). Norland, Hx. (H.T.S., 1898).

S.E.—Kirkham Abbey (* 'Nat.', Nov. 1889).

N.E.—Scarborough.

N.W.—Masham.

219. **Mycena flavo-alba** Fr.

MID W.—Studley Royal (F.F., 1881).

N.E.—Scarborough.

S.W.—On mossy tree-trunks, Nab Wood, Saltaire (Lees' Fl.).

220. **Mycena lactea** Pers.

MID W.—Studley Royal (F.F., 1881). Selby (F.F., 1884). Barlow (Lees' Fl.).

S.W.—Edlington (Doncaster F.F., 1891). Crimsworth Dean, High Greenwood, etc.; near Hebden Bridge. Luddenden Dean, Hx.

N.E.—Scarborough. Cloughton Scar, Scarborough (H.T.S., 'Nat.,' Jan. 1892). Mulgrave Woods (F.F., 1900).

N.W.—Masham.

In woods, chiefly among pine leaves. Frequent.

221. **Mycena gypsea** Fr.

N.E. — Scarborough, first British record (Cooke's Illustr., pl. 952A). Castle Howard (F.F., 1892). Egton Bridge (F.F., 1902).

Mid W.—Bramham and Harewood (F.F., 1888).

S.W.—Sutton (F.F., 1899).

N.W.—Masham.

In tufts on the ground among dead leaves.

222. **Mycena Berkeleyi** Mass. (= *M. excisa* Berk.).

S.W.—Potridings Wood (Cadeby F.F., 1901). On rotting branches. Of this fine, well-marked species, noted for the greatly extended sinus in the gills, only two sporophores were found.

223. **Mycena rugosa** Fr.

S.W.—Nab Wood, Saltaire (Lees' Fl.). Edlington Wood (Doncaster F.F., 1891). Several woods about Hebden Bridge. Binn-royd Clough, Norland; Elland Park Wood; Luddenden Dean, Hx. Huddersfield (F.F., 1895). Goitstock. Hugsett, Stainborough (Barnsley F.F., 1897). Sutton (F.F., 1899). Potridings Wood (Cadeby F.F., 1901). Wyming Brook, Ecclesall, and other places near Sheffield. Thongsbridge (C. H. Broadhead).

S.E.—Everingham (Pocklington F.F., 1893).

N.E.—Scarborough. Arncliffe Woods (Whitby F.F., 1894). Mulgrave (F.F., 1900). Egton Bridge (F.F., 1902).

N.W.—Masham. Frequent on and about dead stumps.

224. **Mycena sudora** Fr.

Mid W.—Denton, near Ilkley (Lees' Fl.).

S.E.—Boynton (W.W.S.).

225. **Mycena galericulata** (Scop.).

Common everywhere, from July to November, in fascicles, or

occasionally solitary, on and near old dead stumps. Has been met with at all the forays.

Var. **calopoda** Fr.

S.W.—Pecket Wood, and High Greenwood, near Hebden Bridge. Northdean Wood; Luddenden Dean Woods, Hx. Potridings Wood (Cadeby F.F., 1901).

226. **Mycena polygramma** (Bull.).

Mid W.—Studley Royal (F.F., 1881). Harewood (F.F., 1888).

S.W.—Shipley Glen (Lees' Fl.). Edlington Woods (Doncaster F.F., 1891). Coxley Valley; Hunsworth. On rotting beam, Heath, Hx. Birks Wood, Southowram; Northdean Wood, Hx. Hebden Bridge. Hugsett; Stainborough (Barnsley F.F., 1897). Melton (Cadeby F.F., 1901). Goitstock. Anston, Sheffield.

S.E.—Pocklington (F.F., 1893). Escrick (Selby F.F., 1896).

N.E.—Scarborough. Mulgrave Woods (F.F., 1900). Egton Bridge (F.F., 1902).

N.W.—Masham. Sedbergh (*1902).

227. **Mycena parabolica** (A. & S.).

S.E.—Grindale (W.W.S., 'Nat.,' June 1889).

228. **Mycena tintinnabulum** Fr.

N.E.—Scarborough. On fallen, decaying branches.

N.W.—Masham.

229. **Mycena flavipes** (Quel.).

N.E.—Whitby, on stump (G.M.), first British record (Cooke's Illustr., pl. 951B).

230. **Mycena atro-alba** (Bolton).

S.W.—"Grows amongst moss about the roots of trees in woods about Halifax, but rarely" (Bolton's 'Hist. Fung.,' 1789, tab. 137). Cullingworth; Battye Ford (Lees' Fl.).

231. **Mycena pullata** (Berk. & Cke.).

S.W.—North Wood, near Lightcliffe; Elland Park Wood, Hx. Hebden Bridge. Goitstock.

On the ground among leaves in woods.

232. **Mycena dissiliens** Fr.

S.W.—"On decaying stumps of fallen trees, Halifax" (Bolton's 'Hist. Fung.,' 1790, tab. 154). Warley; North Wood, near Lightcliffe, Hx. Callis Wood; High Greenwood; near Hebden Bridge.

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

Strong scented.

233. **Mycena plicosa** Fr.

N.E.—Scarborough.

S.W.—On lawn, Peel Park, Bradford (H.T.S., 'Nat.,' Sept. 1891). Hugsett (Barnsley F.F., 1897).

N.W.—Masham.

234. **Mycena atrocyanea** (Batsch).

N.E. — Scarborough. Cloughton, Scarborough (H.T.S., 'Nat.,' Jan. 1892). Mulgrave Woods (F.F., 1900).

S.W. — Luddenden Dean, Hx. Northdean Wood, Hx. (H.T.S.). Howden Hole, near Hebden Bridge. Sutton (F.F., 1899).

The Luddenden Dean specimens were met with during a foray held by the Mycological Committee in October 1895, and recorded as *Mycena iris*. They were afterwards found to belong here.

235. **Mycena leptocephala** Pers.

S.W.—Hatfield (*'Nat.,' March 1888). Ovenden, Hx. (G. L. Lister). Peel Park, Bradford (Lees' Fl.). Halifax.

Mid W.—Ilkley; Hawkesworth; Baildon (Lees' Fl.).

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

236. **Mycena alcalina** Fr.

Mid W.—Selby (F.F., 1884). Bramham (F.F., 1888). Ilkley (Fl. Skipt.).

S.W.—Shipley Glen; Bingley (Lees' Fl.). Ovenden; Northdean Wood, Hx. (J. W. Sutcliffe). High Greenwood, Hebden Bridge. Stainborough (Barnsley F.F., 1897). Sutton (F.F., 1899). Anston and Grenoside, near Sheffield. Thongsbridge (C. H. Broadhead).

N.E.—Scarborough. Mulgrave (F.F., 1900). Egton Bridge (F.F., 1902).

N.W.—Masham.

Frequent on trunks, stumps, etc. Distinguished by its strong alkaline odour.

237. **Mycena ammoniaca** Fr.

S.W. — Gomersall ('Nat.,' Sept. 1891). Shipley Glen (H.T.S.). Field, Elland Park Wood; Luddenden Dean; Skircoat, Hx. Crimsworth Dean, Hebden Bridge. Sheffield.

N.E.—Scarborough. Castle Howard (F.F., 1892). Arncliffe Woods (Whitby F.F., 1894). Mulgrave Woods (F.F., 1900).

S.E. — Everingham (Pocklington F.F., 1893). Skipwith (Selby F.F., 1896).

N.W.—Masham.

238. **Mycena cinerea** Mass. & Crossl. ('Nat.,' Jan. 1902, p. 1).

Mid W.—Among short grass. First collected at Selby, Yorks., afterwards met with at Louth, Lincs., and at Kew, Surrey.

Apparently not uncommon, and probably passed over as *M. metata* Fr., which differs in the absence of smell, and white gills. Most nearly allied to *M. plumbea* Fr., recently found in this country; the latter, however, differs in the sulcate pileus, white apex of stem, and absence of smell.

239. **Mycena metata** Fr.

N.E.—Scarborough.

N.W.—Masham.

S.W.—Redmires, near Sheffield.

240. **Mycena ætites** Fr.

S.W.—Among moss, Highlee Clough, Norland, Hx., 1900.

241. **Mycena stannea** Fr.

N.E.—Scarborough. Mulgrave Woods (F.F., 1900). Egton Bridge (F.F., 1902).

S.W.—Sutton (F.F., 1899). Hardcastle, Hebden Bridge. Thongsbridge (C. H. Broadhead).

N.W.—Masham. Not common.

242. **Mycena vitrea** Fr.

Mid W.—Hawkesworth, 1885 (Lees' Fl.).

243. **Mycena tenuis** (Bolton).

S.W.—"Grows in the deep, moist and shady parts of woods; in a little wood above Lee Bridge; Woodhouse Wood; North Dean; and several other like places near Halifax, 1783" (Bolton's 'Hist. Fung.,' tab. 37).

244. **Mycena filopes** (Bull.).

S.W.—Northdean Wood (*'Nat.,' 1877-8). Hugsett (Barnsley F.F., 1897). Sutton (F.F., 1899). Melton; Potridings (Cadeby F.F., 1901). Wyming Brook, near Sheffield.

Mid W.—Church Fenton; Hambleton; Bishops Wood (Lees' Fl.). Bramham (F.F., 1888).

N.E.—Scarborough. Mulgrave Woods (Whitby F.F., 1894 and 1900). Egton Bridge (F.F., 1902).

Frequent in woods among decaying leaves.

245. **Mycena iris** (Berk.).

S.W.—Roche Abbey Valley (Lees' Fl.).

N.E.—Scarborough. Stokesley (*1899).

S.E.—Boynton (W.W.S., 'Nat.,' June 1889).

On decaying fir-wood.

246. **Mycena amicta** Fr.

S.W.—Moor-edge, Rishworth, Hx., 1899, about the roots of *Nardus stricta.*

247. **Mycena debilis** Fr.

N.E.—Staithes (*'Nat.,' Apr. 1898). Mulgrave Woods (F.F., 1900).

N.W.—Masham. Rare.

248. **Mycena vitilis** Fr.

N.E.—Scarborough ('Nat.,' 1880-1). Castle Howard and Welham Park (F.F., 1892).

Mid W.—Hawkesworth (Lees' Fl.).

S.W.—Crimsworth Dean, near Hebden Bridge.

249. **Mycena speirea** Fr.

S.W.—On a tree trunk, Thackley, 1886 (Lees' Fl.).

N.W.—Masham.

250. **Mycena acicula** (Schæff.).

Mid W.—Selby (F.F., 1884). Esholt (H.T.S., 1891). Harewood and East Keswick (F.F., 1898). Brimham (*1902).

N.E.—Scarborough.

S.E.—Kirkham Abbey (*'Nat.,' Nov. 1889). Escrick (Selby F.F., 1896).

S.W.—High Greenwood and Midge-Hole Wood; Crimsworth Dean, etc., near Hebden Bridge, 1893. Elland Park Wood, Hx. (Bolton's tab. 39B, see under *Collybia clavus*). Melton Wood; Potridings Wood (Cadeby F.F., 1901).

N.W.—Masham.

Frequent among rotten leaves and twigs.

251. **Mycena hæmatopoda** Fr.

Mid W.—Selby (F.F., 1884).

N.E.—Scarborough (Cooke's Illustr., pl. 162A). Mulgrave Woods (Whitby F.F., 1894). Egton Bridge (F.F., 1902).

S.W.—Sutton (F.F., 1899). Melton and Potridings Woods (Cadeby F.F., 1901).

On stumps, decaying branches, etc.

252. **Mycena sanguinolenta** (A. & S.).

Very common in almost any damp wood among the dead leaves. Has been recorded for each county division.

253. **Mycena galopoda** Fr.

As common and in similar situations as the preceding species.

254. **Mycena leucogala** Cke.

N.E.—Scarborough. On rotten stumps, etc.

S.W.—Goitstock (Fl. Skipt.).

N.W. Sedbergh (*1902).

255. **Mycena epipterygea** (Scop.).

S.W.—"Under the fir trees in the plantation near Fixby Hall" (Bolton, unpublished tab. in B.M. (Nat. Hist.) collection, n. 350 = *Ag. lubricus*). Heaton Wood, Wibsey (Lees' Fl.). Wharncliffe. Coxley Valley. Norland; Luddenden Dean; Elland Park Wood; Stainland, etc., Hx. Several places about

Hebden Bridge. Goitstock. Hugsett (Barnsley F.F., 1897). Wyming Brook, and Ecclesall, near Sheffield.

MID W.—Beckwithshaw (F.F., 1881). Selby (F.F., 1884). Bramham and Harewood (F.F., 1888). Rombalds' Moor; Baildon; Temple Hurst (Lees' Fl.). Bolton Woods (Fl. Skipt.).

N.E.—Scarborough. Cloughton, Scarborough (H.T.S., 'Nat.,' Jan. 1892). Castle Howard (F.F., 1892).

S.E.—Escrick (F.F., 1896).

N.W.—Masham.

Common in fields on the margins of woods, and in woods of an open, grassy nature.

256. **Mycena clavicularis** Fr.

N.W.—Masham.

257. **Mycena pelliculosa** Fr.

MID W.—Baildon Moor (Lees' Fl.).

N.E.—Scarborough.

S.W.—Crimsworth Dean, Hebden Bridge. Fixby, Hx. Goitstock.

258. **Mycena vulgaris** Pers.

S.W.—Roche Abbey Valley (Lees' Fl.). Huddersfield (F.F., 1895). Melton Woods (Cadeby F.F., 1901).

MID W.—Langstrothdale.

N.E.—Scarborough.

Among pine leaves, twigs, etc. Not common.

259. **Mycena citrinella** Pers.

N.E.—Scarborough. In pine woods, rare.

260. **Mycena rorida** Fr.

N.E.—Scarborough. Rare.

261. **Mycena stylobates** Pers.

MID W.—Selby (F.F., 1884). Baildon; Hawkesworth (Lees' Fl.). Harewood (F.F., 1888). East Keswick (F.F., 1898).

S.W.—Roche Abbey Valley (Lees' Fl.). Edlington Wood (Doncaster F.F., 1891). Elland Park Wood; Luddenden Dean; Hx. Hebden Bridge. Sutton (F.F., 1899).

N.E.—Scarborough.

Common on dead leaves, rushes, fern stems, &c., in wet places.

262. **Mycena tenerrima** (Berk.).

N.E.—Castle Howard ('Nat.', June 1881). Stokesley (Exc. 1899). Egton Bridge (F.F., 1902, 'Nat.', Nov.). Rievaulx (F.F., 1903, 'Nat.', Nov.),

S.W.—Shipley Glen (Lees' Fl.).

Mid W.—Baildon (Lees' Fl.).

S.E.—Boynton (W.W.S.). Escrick.

N.W.—Masham ('Nat.', Jan. 1902).

On fir cones and twigs in moist places. Not uncommon.

263. **Mycena saccharifera** (B. & Br.).

S.W.—Bog, Shipley Glen ('Nat.', Sep. 1891). Elland Park Wood, and Luddenden Dean, near Hx. (Fl. Hx.).

N.W.—Swinton and Masham. On dead bramble ('Nat.', May 1903).

264. **Mycena discopoda** Lév.

N.E.—Scarborough. Mulgrave Woods (F.F., 1894).

S.W.—Crimsworth Dean, Hebden Bridge (Fl. Hx.). Sutton (F.F., 1899). Melton Woods (F.F., 1901).

S.E.—Hessle and Hornsea (Hull S. & F.N.C.).

N.W.—Masham. On dead twigs in moist places ('Nat.', May 1903).

265. **Mycena corticola** (Schum.).

Mid W.—Studley Royal (F.F., 1881). Ingleton (Lees' Fl.).

N.E.—Scarborough. Mulgrave Woods (F.F., 1894). Egton Bridge (F.F., 1902, 'Nat.', Nov.). Helmsley (F.F., 1903, 'Nat.', Nov.).

N.W.—Masham ('Nat.', Jan. 1902).

On bark of living trees, among moss, lichens, etc.

266. **Mycena hiemalis** (Osbk.).

S.W.—Nab Wood, Saltaire. On tree trunks (Lees' Fl.).

Mid W.—Harewood (F.F., 1898).

N.W.—Masham ('Nat.', Jan. 1902).

267. **Mycena setosa** (Sow.).

S.W.—Sutton (F.F., 1899). Potridings Wood (F.F., 1901). Among fragments of decaying leaves.

268. **Mycena capillaris** (Schum.).

N.E.—Castle Howard ('Nat.', June 1881). Staithes (*'Nat.', Ap. 1898). Filey (*'Nat.', Jy. 1903). Rievaulx and Helmsley (F.F., 1903, 'Nat.', Nov.).

Mid W.—Linn Gill, 1886, among moss (Lees' Fl.).

S.W.—Crimsworth, Hebden Bridge (Fl. Hx.). Potridings Wood (F.F., 1901).

N.W.—Masham ('Nat.', Jan. 1902).

S.E.—Hornsea (Hull S. & F.N.C.).

On dead beech leaves in very moist situations.

269. **Mycena juncicola** Fr.

Mid W.—Baildon Moor, on dead rushes (Lees' Fl.).

OMPHALIA Fr.

270. **Omphalia hydrogramma** Fr.

N.E.—Scarborough. In woods among dead leaves.

S.W.—Goitstock (Fl. Skipt.).

271. **Omphalia Postii** Fr.

N.E.—Scarborough, in swamps.

Var. **aurea** Mass.

N.E.—Scarborough, in swamps among Sphagnum.

The variety was founded on the Scarborough specimens figured in Cooke's Illustr. pl. 1152B, as a form of *O. Postii*, but is probably a distinct species.

272. **Omphalia pyxidata** (Bull.).

Mid W.—Hodder Valley, near Slaidburn; Church Fenton (Lees' Fl.).

N.E.—Terrington Carr ('Nat.', Mar. 1881). Scarborough.

273. **Omphalia telmatiaea** (Berk. & Cke.).

N.E.—Scarborough, among Sphagnum (Cooke's Illustr. pl. 240).

274. **Omphalia sphagnicola** (Berk.).

N.E.—Terrington Carr (Bot. Rep. 1879, Tr. IV.).

S.W.—Nab Wood, Saltaire ('Nat.', Sep. 1891). Erringden and Wadsworth Moors, in Sphagnum swamps (Fl. Hx.).

275. **Omphalia philonotis** (Lasch).

S.W.—Hebden Bridge. On mossy water-trough side (Fl. Hx.).

276. **Omphalia oniscus** Fr.

N.E.—Scarborough ('Nat.', Aug. 1882).

277. **Omphalia cæspitosa** (Bolton).

S.W.—"Sides of a peat-pit, Halifax" (Bolton, Tab. 41C.).

This species is generally considered as *O. oniscus*, but Dr. Cooke differs from this opinion; in his Handbook to Illustr., p. 94, he remarks: "This species has been confounded with *Ag. oniscus* Fr., both in the Handbook [ed. 1] and by Fries himself. It is exactly the plant figured in the English edition of Bolton, but the German reprint is coloured very differently. The colour is entirely of a delicate ochraceous white."

278. **Omphalia rustica** Fr.

N.E.—Castle Howard (F.F., 1892).

279. **Omphalia hepatica** (Batsch).

N.E.—Scarborough.

N.W.—Masham. Among moss and hepaticæ ('Nat.', Jan. 1902).

280. **Omphalia muralis** (Sow.).

Mid W.—Ilkley (*'Nat.', June 1877).

S.W.—Seven Arches, Saltaire; Eldwick (Lees' Fl.).

N.E.—Scarborough. On walls, sandy banks, etc.

281. **Omphalia umbellifera** (L.).

Not uncommon. Has been met with on moist heathy banks in many places in each county division.

282. **Omphalia griseo-pallida** (Desm.).

S.E.—Bingley Woods ('Nat.', Sep. 1891).

283. **Omphalia stellata** (Sow.).

N.E.—Scarborough ('Nat.', June 1881). Arncliffe Woods (F.F., 1894). Mulgrave Woods (F.F., 1900).

S.W.—Calverley ('Nat.', Sep. 1891). Elland Park Wood (Hx.) Hebden Bridge (Fl. Hx.). Birdwell (F.F., 1897). On rotten wood.

284. **Omphalia campanella** (Batsch).

Mid W.—Church Fenton, 1881 (Lees Fl.). Harewood (F.F., 1888).

N.E.—Scarborough. York (*'Nat.', Aug. 1883). Mulgrave (F.F., 1900).

S.W.—Northdean Wood and Luddenden Dean; (Fl. Hx.). Hugsett (F.F., 1897). Sutton (F.F., 1899).

285. **Omphalia picta** Fr.

S.W.—Potridings Wood (F.F., 1901). On decaying twigs.

286. **Omphalia grisea** Fr.

N.E.—Scarborough ('Nat.', June 1881). Castle Howard and Welham Park (F.F., 1892).

S.W.—High Greenwood and other places about Hebden Bridge ('Nat.', Sep. 1892). Melton Woods (F.F., 1901).

N.W.—Masham ('Nat.', Jan. 1902).

On decaying sticks, etc., in mixed woods.

287. **Omphalia fibula** (Bull.).

Common among moss of various sp. on shaded banks, and in moist woods. Generally distributed.

N.E.—Scarborough. Limber Wood, Egton Bridge (F.F., 1902, 'Nat.', Nov.).

Mid W.—East Keswick (F.F., 1898).

S.W.—Edlington Woods (F.F., 1892). Hugsett and Birdwell (F.F., 1897). On the ground among *Petasites vulgaris*. Elland, and Luddenden Dean, Hx. (Fl. Hx.).

288. **Omphalia belliæ** (Johnst.).

S.W.—High Greenwood, Hebden Bridge, 1893 (Fl. Hx.).

289. **Omphalia gracillima** (Weinm.).

N.E.—Staithes (*'Nat.', Ap. 1898).

S.W.—Elland Park Wood, Hx., on decaying Carex stems (Fl. Hx.).

290. **Omphalia bullula** (Brig.).

N.E.—Helmsley (F.F., 1903, 'Nat.', Nov.).

291. **Omphalia integrella** (Pers.).

S.W.—Odsal Wood, 1885 (Lees' Fl.). Broadbottom,

Pecket Wood, Beaumont Clough, and High Greenwood, all near Hebden Bridge (Fl. Hx.). Potridings Wood (F.F., 1901).

Mid W.—East Keswick (F.F., 1898).

N.W.—Masham (* 'Nat.', Jan. 1902).

N.E.—Stokesley (Exc. 1899). Mulgrave Woods (F.F. 1900).

PLEUROTUS Fr.

292. **Pleurotus corticatus** Fr.

S.W.—On a fallen tree, Goitstock ('Nat.', Sep. 1891).

293. **Pleurotus dryinus** (Pers.).

Mid W.—Studley Royal (F.F., 1881). Harewood (F.F., 1898).

N.E.—Scarborough. Helmsley (F.F., 1903, 'Nat.', Nov.)

S.W.—Wyke (Lees' Fl.).

S.E.—Osgodby.

N.W.—Masham ('Nat.' Jan. 1902).

On tree trunks, principally oak.

294. **Pleurotus spongiosus** Fr.

S.W.—Odsal Wood, Wibsey, on dead poplars (Lees' Fl.).

295. **Pleurotus ulmarius** (Bull.).

Mid W.—On elm in a timber-yard, Selby (Tr. Y.N.U. ix.). Esholt (Lees' Fl.).

S.E.—On elm, Boynton (W.W.S.). Escrick.

S.W.—Odsal Wood, Wibsey (Lees' Fl.). Stainborough F.F., 1897). On fallen elm trunks, Cadeby (F.F., 1901).

N.E.—Rievaulx (F.F., 1903, 'Nat.', Nov.).

296 **Pleurotus fimbriatus** (Bolton).

S.W.—"Stump Wood, Northowram . . . in several moist woods about Halifax, 1787" (Bolton Tab. 61).

297. **Pleurotus Ruthæ** (B. & Br.)

N.E.—Scarborough.

298. **Pleurotus lignatilis** Fr.

N.E.—Mulgrave Woods (F.F., 1900). Helmsley (H. Slater, 'Nat.', Nov. 1903). On decaying trunks.

299. **Pleurotus circinatus** Fr.

S.W.—Owston (F.F., 1899). On decaying birch.

300. **Pleurotus pantoleucus** Fr.

S.W.—Potridings Wood (F.F., 1901). On dead branch.

301. **Pleurotus ostreatus** Jacq.

Mid W.—Esholt ('Nat.', June 1881). Harewood (Tr. Y.N.U. ix.). Haddlesey (Lees' Fl.). Horsforth (J. W. Taylor, 'Nat.', Feb. 1901).

S.W.—Almondbury, and Shelley (Hud. Bot. Soc.) Coxley Valley. Luddenden Dean, Hx. (Fl. Hx.) Ecclesall Wood, Sheffield.

N.E.—Scarborough. Newsham Carr (J. A. Wheldon).

S.E.—Boynton (W.W.S.). Cliff Common, Selby.

N.W.—Masham ('Nat.', Jan. 1902).

Edible. In dense tufts on trunks and stumps.

Var. **columbinus** Bres.

S.W.—Skircoat, Hx. On live laburnum, from a longitudinal slit in the trunk; Heath, Hx. on ash; Greetland.—West Vale Nat. Soc. (Fl. Hx.). Gledholt, Huddersfield, on live ash, 1902 (T. W. Woodhead).

N.W.—Masham ('Nat.', Jan. 1902).

Var. **euosmus** Berk.

S.W.—Liversedge, on decaying poplars ('Nat.', Sep. 1891), Huddersfield (Lees' Fl. under *Claudopus*).

Mid W.—Bolton Woods (Fl. Skipt.).

302. **Pleurotus revolutus** (Kickx.)

N.E.—Thirsk. On the trunk of a black poplar ('Nat.', Feb. 1899). Differs from *P. corticalis* in the gills not anastomosing.

303. **Pleurotus salignus** (Pers.).

S.W.—On tree trunk, Idle, 1887 (Lees' Fl.). Hebden Bridge; Heath, Hx. (Fl. Hx.). Scammonden (A. Clarke).

N.W.—Masham ('Nat.', Jan. 1902).

304. **Pleurotus acerinus** Fr.

N.E.—Stokesley (Exc. 1899). Mulgrave Woods (F.F., 1900).

305. **Pleurotus serotinus** (Schrad.).

S.E.—Boynton (W.W.S.).

S.W.—Northdean Wood, Hx. On the base of a stout

gate-post, appearing in Nov. for eight years in succession (Fl. Hx.). Recorded in error as *P. Ruthæ*, 'Nat.', June 1894, p. 166.

N.W.—Masham ('Nat.,' May 1903).

306. **Pleurotus mitis** (Pers.)

S.W.—Roche Abbey Valley; on larch in wood-yard. Steeton (Lees' Fl.). Melton Woods (F.F., 1901). On wet ash-board near water-tap in shop cellar, Hx. (Fl. Hx.). On old damp orange box, Hx. (C. H. Broadhead, Oct. 1903).

S.E.—Boynton (W.W.S.). Skipwith.

Mid W.—Stainer Wood.

N.E.—Scarborough. Mulgrave Woods (F.F., 1900). Helmsley (H. Slater, 'Nat.', Nov. 1903).

N.W.—Masham ('Nat.', Jan. 1902).

307. **Pleurotus limpidus** Fr.

N.E.—Scarborough.

Mid W.—Bramham (F.F., 1898).

308. **Pleurotus reniformis** Fr.

S.W.—Northdean Wood, Hx. On rotten twigs buried in moss (Fl. Hx.).

309. **Pleurotus tremulus** (Schæff.).

S.W.—Edlington (F.F., 1892). Elland Park Wood, Hx. On the ground under elder-tree (Fl. Hx.).

N.E.—Helmsley (F.F., 1903, 'Nat.', Nov.).

310. **Pleurotus acerosus** Fr.

S.W.—Halifax, 1787 (Bolton Tab. 72, f. 3. *Ag. planus*). Bolton's specimens were found "growing erect on the ground in a steep field by the footway leading from Elland to Mills Bridge." Since found in other parts of England on gravel, lawns, fallen twigs in woods, on pine needles and pine wood, among Sphagnum, dead leaves, etc. A most variable sp. both in appearance and choice of habitat. Bolton's drawing is accepted as representing the typical form.

On bare ground, Goitstock Wood.

311. **Pleurotus septicus** Fr.

Common in woods, on twigs, dead leaves, dung, decaying flax, other fungi, etc. Generally distributed.

312. **Pleurotus cyphellæformis** (Berk.).

N.E.—Rievaulx (F.F., 1903, 'Nat.', Nov.).

313. **Pleurotus applicatus** (Batsch).

N.E.—Scarborough (Bot. Rep. 1879, Tr. IV.).

S.E.—Boynton (W.W.S.).

S.W.—Wadworth (F.F., 1892). On dead branches, twigs, etc. Kiveton Park, Sheffield.

N.W.—Masham ('Nat.', Jan. 1902).

314. **Pleurotus hypnophilus** (Berk.).

Mid W.—Malham. On moss-covered wall (Lees' Fl.).

S.W.—High Greenwood, Hebden Bridge, on moist, dead grass (Fl. Hx.). Goitstock Wood, on moss.

315. **Pleurotus chioneus** (Pers.).

S.W.—Saltaire. On decayed tree (Lees' Fl.). Elland Park Wood, and Luddenden Dean, Hx. Pecket Wood, Hebden Bridge (Fl. Hx.). Rockley, Barnsley (F.F., 1897).

N.E.—Scarborough. Egton Bridge (F.F., 1902, 'Nat.', Nov.).

N.W.—Masham ('Nat.', May 1903). On dead twigs.

S.E.—Hessle and Hornsea. On a human bone dug from an A.-S. grave-yard at Newbold, near South Cave. The bone was placed in a hedge bottom and left for a few weeks. In the meantime this minute agaric had developed about a dozen pilei upon it. 1903 (T. Sheppard).

Chlorosporæ.

CHLOROSPORA Massee.

316. **Chlorospora Eyrei** Mass.

S.W.—Potridings Wood (F.F., 1901). On the ground, among decaying twigs.

Only previously recorded for Hampshire.

Rhodosporæ.

VOLVARIA Fr.

317. **Volvaria bombycina** (Schæff.).

N.E.—Scarborough. On decayed wood.

318. **Volvaria speciosa** Fr.

S.W.—Roche Abbey Valley (Lees' Fl.).

Mid W.—Carlton and Camblesforth ('Nat.', Oct. 1877).

S.E.—Skipwith.

On dung-hills, rich, grassy road sides, etc.

319. **Volvaria gloiocephala** (D.C.).

S.W.—Ramsden Wood, Halifax, 1787 (Bolton, Tab. 38, f. 2; and Tab. 49).

Fries, Hym. Eur., p. 27, and the Dict. Icon. Champ., p. 378., place the above two figures under *Amanitopsis vaginata;* but the statement that the gills are of a pale cinnamon-brown in one case, and the stem solid, and pileus "glutinous" in the other, indicates that the figures represent the present species. The Brit. Mus. collection includes another [unpublished] drawing by Bolton of this species, gathered in Burks Wood, near Hx., Sep., 1794.

On shoddy heap, Huddersfield (Gard. Chron., Aug. 23, 1885).

On bare ground under trees, Eller Carr, near Cullingworth.

N.E.—Castle Howard (F.F., 1892). Robin Hood's Bay.

S.E.—Escrick (F.F., 1896).

320. **Volvaria parvula** Fr.

S.W.—Campsall. On dead trunk (F.F., 1899, 'Nat.', Jan. 1900).

321.—**Volvaria temperata** (B. & Br.).

N.E.—Scarborough. On soil in a conservatory (Cooke's Illustr., pl. 300).

PLUTEUS Fr.

322. **Pluteus cervinus** (Schæff).

S.W.—Halifax, 1786 (Bolton, Tabs. 2 and 15).

Common on and about old stumps and rotting trunks in fields and open woods. Distribution general.

Var. **eximius** Smith.

S.W.—Denby Dale. Huddersfield, with pileus 12 in. across (W. Barden).

323. **Pluteus umbrosus** (Pers.).

S.W.—Nab Wood, Saltaire. On old stumps, etc. (Lees' Fl.).

324. **Pluteus hispidulus** Fr.

S.E.—Everingham (F.F., 1893).

S.W.—Hugsett (F.F., 1897).

Mid W.—East Keswick (F.F., 1898). On beech stump.

325 **Pluteus ephebius** Fr.

N.E.—Helmsley (G.M.). These specimens formed the first British record (Grev. xiii., p. 90; Cooke's Illustr. pl 517). This species was here met with again at the 1903 F.F. ('Nat.', Nov.).

S.W.—Edlington Woods (F.F., 1891). Owston (F.F., 1899).

S.E.—Allerthorpe (F.F., 1893). On rotten wood.

326. **Pluteus pellitus** Fr.

S.E.—Rillington (G.M.). These specimens formed the first British record (Grev. xiv., p. 37; Cooke's Illustr. pl. 597).

N.E.—Scarborough.

N.W.—Masham ('Nat.', Jan. 1902).

327. **Pluteus nanus** (Pers.).

N.E.—Scarborough.

Mid W.—Bramham (F.F., 1888).

328. **Pluteus spilopus** (B. & Br.).

N.E.—Mulgrave Woods (F.F., 1900).

329. **Pluteus semibulbosus** (Lasch.).

N.E.—Scarborough (Grev. xiii., p. 89; Cooke's Illustr. pl. 518a).

330. **Pluteus violarius** Massee.

N.E.—Scarborough. The species was established on the Scarborough specimens (Grev. xiii., pp. 89-90; Cooke's Illustr. pl. 518b).

On a stump; gregarious. Smell and taste pleasant. The paper on which the specimens were dried was stained bright violet.

331. **Pluteus leoninus** (Schæff.).

N.E.—Scarborough.

332. **Pluteus chrysophæus** (Schæff.).

N.E.—Thornton (G.M.). Helmsley (* 'Nat.', Sep. 1884). Mulgrave Woods (F.F., 1900). On dead wood.

S.W.—Askern (* 'Nat.', June 1886). Potridings Wood (F.F., 1901).

S.E.—Boynton (W.W.S.).

333. **Pluteus phlebophorus** (Ditm.).

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

Mid W.—Woodhall Bridge, East Keswick (F.F., 1898).

S.W.—Potridings Wood (F.F., 1901). On decaying stumps.

ENTOLOMA Fr.

334. **Entoloma lividum** Fr.

N.E.—Helmsley (F.F., 1903; 'Nat.', Nov.).

335. **Entoloma sinuatum** Fr.

Mid W.—Studley Royal (F.F., 1881). Camblesforth (Lees' Fl.).

S.E.—Skipwith (F.F., 1884). Blackwood, Selby (F.F., 1896).

N.E.—Scarborough. Castle Howard (F.F., 1892). Mulgrave Woods (F.F., 1900).

N.W.—Masham ('Nat.', Jan. 1902).

336. **Entoloma prunuloides** Fr.

S.W.—Stansfield, High Greenwood, and Crimsworth Dean, all near Hebden Bridge. Shelf, Hx. (Fl. Hx.).

Mid W.—Harewood (F.F., 1898). Among grass and moss.

N.E.—Helmsley (F.F., 1903; 'Nat.', Nov.).

337. **Entoloma repandum** (Bull.).

S.W.—Cullingworth, rare (Lees' Fl.).

338. **Entoloma placenta** (Batsch.).

S.W.—Shipley Glen (Lees' Fl.).

339. **Entoloma helodes** Fr.

N.E.—Scarborough. Helmsley (F.F., 1903, 'Nat.', Nov.).

340. **Entoloma Farrahi** Mass. & Crossl. Sp. nov.

N.E.—Among grass on the terrace overlooking Rievaulx Abbey. Helmsley (F.F., 1903; 'Nat.', Jan. 1904, figs. 1-4).

It differs from its nearest allies, *E. Bloxami* and *E. ardosiacum*, in having elliptical, smooth spores, and in other points.

341. **Entoloma Bloxami** (Berk.).

N.E.—Scarborough.

S.W.—Pasture, Bingley ('Nat.', Sep. 1891).

342. **Entoloma liquescens** (Cke.).

N.E.—Scarborough. The species was founded on the Scarborough specimens (Cooke's Illustr. pl. 581).

On the ground under trees. Resembling *Coprinus* in the gills being deliquescent at maturity.

343. **Entoloma ameides** (B. & Br.).

N.E.—Arncliffe Woods (F.F., 1894).

S.E.—Hornsea Mere side, 1903 (A. R. Warnes).

344. **Entoloma fertile** (Berk.).

S.W.—Edlington Woods (F.F., 1891).

Mid W.—Bramham (F.F., 1888). In woods, rare.

345. **Entoloma porphyrophæum** Fr.

S.W.—Liversedge. Huddersfield (F.F., 1895).

346. **Entoloma jubatum** Fr.

Mid W.—Ilkley, Bingley, Hawkesworth and Baildon (Lees' Fl.). Bramham (F.F., 1888). East Keswick (F.F., 1898). Pateley Bridge, 1903 (F. Crossland, Hx.).

S.W.—Huddersfield (Lees' Fl.). Goitstock. Fixby. Midgehole, and other places near Hebden Bridge. Parknook, Southowram ('Nat.', Sep. 1892). Luddenden Dean; Stainland, etc., Hx. (Fl. Hx.). Wharncliffe (* 'Nat.', Oct. 1903).

S.E.—Blackwood (F.F., 1896).

N.E.—Scarborough. Mulgrave Woods (F.F., 1900). Egton Bridge (F.F., 1902, 'Nat.', Nov.).

N.W.—Masham ('Nat.', Jan. 1902). Sedbergh (Exc. 1902). Bowes ('Nat.', Sept. 1903).

In upland pastures, not uncommon.

347. **Entoloma griseo-cyaneum** Fr.

S.W.—Huddersfield (F.F., 1895). Rare.

N.W.—Bowes ('Nat.', Sept. 1903).

348. **Entoloma sericellum** Fr.

S.W.—Huddersfield district (Lees' Fl.). Frequent on grassy banks in woods. Distribution general. Has been met with in all the county divisions.

349. **Entoloma Thomsoni** (B. & Br.).

N.E.—Scarborough. Among grass in plantation.

350. **Entoloma tortipes** Mass.

N.E.—Scarborough. Among grass.

351. **Entoloma clypeatum** (L.).

S.W.—"Bracken-Bed Wood, near Hx., Sep., 1787" (Bolton, Tab. 69). Bingley Woods, and Huddersfield district (Lees' Fl.).

Mid W.—Wetherby (Bot. Rep., 1877. Tr. I.).

N.E.—Scarborough. Bulmer. S.E.—Escrick (F.F., 1896). On the ground among grass in spring.

352. **Entoloma nigrocinnamomeum** (Kalchbr.).

N.E.—Scarborough. In pastures. The Scarborough specimens formed the first British record (Cooke's Illustr., pl. 1153).

353. **Entoloma rhodopolium** Fr.

S.W.—"Grows in the shady parts of woods in the neighbourhood of Halifax, Aug. and Sept." (Bolton, Tab. 6). Shelley, June 1883 (W. Barden, Hud. Bot. Soc.). Shipley Glen, 1884 (Lees' Fl.). Stainland, Hx., 1899 (Fl. Hx.).

S.E.—Everingham (F.F., 1893). Blackwood (F.F., 1896).

354. **Entoloma majale** Fr.

S.W.—Shipley Glen ('Nat.', Sep. 1891). Goitstock Wood.

355. **Entoloma costatum** Fr.

S.W.—Bradford and Liversedge (Lees' Fl.). Hebden Bridge. Elland and Northdean, Hx. (Fl. Hx.). Goitstock. Ravensthorpe, 1901 (H. Parkinson).

Mid W.—Hawkesworth and Baildon (Lees' Fl.). Harewood (F.F., 1888).

N.E.—Scarborough; Filey (G.M.). Arncliffe (F.F., 1894). Mulgrave (F.F., 1900).

S.E.—Blackwood (F.F., 1896).

Frequent in pastures and moist meadows.

356. **Entoloma sericeum** (Bull.).

S.W.—Mirfield ('Nat.', Nov. 1876), etc., etc. Common. Distribution general. Grows in pastures, meadows, grassy waste places, and open woods.

357. **Entoloma nidorosum** Fr.

N.E.—Helmsley ('Nat.', Sep. 1884), and (F.F., 1903, 'Nat.', Nov.). Scarborough. Arncliffe (F.F., 1894).

Mid W.—Bramham (F.F., 1888).

S.W.—Edlington Woods (F.F., 1891). Hurst, High Greenwood, and Crimsworth Dean, all near Hebden Bridge (Fl. Hx.). Maltby Wood (T. Gibbs). In pastures and woods.

358. **Entoloma speculum** Fr.

N.E.—Mulgrave Woods (F.F., 1900). Helmsley (F.F., 1903, 'Nat.', Nov.). Among grass and fallen twigs.

CLITOPILUS Fr.

359. **Clitopilus prunulus** (Scop.).

S.W.—Thornes Park, Wakefield ('Nat.', Jan. 1876). Hebden Bridge, several places (Fl. Hx.). Owston (F.F., 1899). Maltby Wood (T. Gibbs).

Mid W.—Malham (Lees' Fl.). Bolton Woods (Fl. Skipt.).

N.E.—Scarborough. Castle Howard (F.F., 1892). Arncliffe Woods (F.F., 1894). Mulgrave (F.F., 1902, 'Nat.', Nov.). Helmsley (F.F., 1903, 'Nat.', Nov.).

S.E.—Allerthorpe (F.F., 1893).

N.W.—Masham ('Nat.', Jan. 1902). Edible. Frequent among grass in open woods.

360. **Clitopilus orcella** (Bull.). Sweetbread.

Edible. Frequent in open grassy glades. Has been recorded for all the county divisions.

361. **Clitopilus cretatus** (B. & Br.).

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

S.W.—Hebden Bridge, and Luddenden Dean (Fl. Hx.).

362. **Clitopilus cancrinus** Fr.

Mid W.—Bramham (F.F., 1888).

N.E.—Scarborough. In grassy places.

S.W.—Crimsworth Dean, Hebden Bridge (Fl. Hx.). Owston (F.F., 1899).

363. **Clitopilus carneo-albus** Wither.

S.W.—Maltby Wood, 1902 (T. Gibbs).

364. **Clitopilus vilis** Fr.

S.W.—Crimsworth Dean, Hebden Bridge, among grass (Fl. Hx.).

Mid W.—Grassington (Exc. 1900).

365. **Clitopilus stilbocephalus** (B. & Br.).

N.E.—Egton Bridge (F.F., 1902, 'Nat.', Nov.).

LEPTONIA Fr.

366. **Leptonia placida** Fr.

N.E.—Scarborough. On or near beech trunks.

S.E.—Blackwood (F.F., 1896).

367. **Leptonia lappula** Fr.

N.E.—Scarborough. Among beech leaves.

368. **Leptonia lampropoda** Fr.

Frequent in hillside pastures. Distribution general; has been met with in all the county divisions.

369. **Leptonia æthiops** Fr.

S.W.—In pasture near Bingley Woods (Lees' Fl.).

370. **Leptonia solstitialis** Fr.

N.E.—Arncliffe (F.F., 1894). Egton Bridge (F.F., 1902, 'Nat.', Nov.).

S.W.—Maltby Wood, 1902 (T. Gibbs).

On the ground among grass.

371. **Leptonia serrulata** (Pers.).

N.E.—Scarborough.

S.W.—Thornton Moor ('Nat.', Sep. 1891). Crimsworth Dean, Hebden Bridge (Fl. Hx.). Bingley (Fl. Skipt.).

Among grass in woodside pastures and open woods.

372. **Leptonia euchroa** (Pers.).

N.E.—Scarborough. On trunks and branches of hazel, alder, etc.

S.W.—Edlington (F.F., 1891).

373. **Leptonia chalybea** (Pers.).

Mid W.—Austwick ('Nat.', Sep. 1891). Bingley (Lees' Fl. Add.).

S.W.—Edlington (F.F., 1891). Luddenden, (Fl. Hx.).

N.E.—Arncliffe (F.F., 1902, 'Nat.', Nov.). In pastures.

374. **Leptonia lazulina** Fr.

S.W.—Among moss in Crimsworth Dean, and in open part of Pecket Wood, near Hebden Bridge (Fl. Hx.).

375. **Leptonia incana** Fr.

Mid W.—Wet pastures in Hodder Valley about Slaidburn.

N.E.—Scarborough. Castle Howard (F.F., 1892). Helmsley (F.F., 1903, 'Nat.', Nov.). In pastures among grass, moss, etc.

S.E.—Boynton (W.W.S.). Hull, 1903 (A. R. Warnes).

S.W.—Crimsworth Dean, Hebden Bridge (Fl. Hx.).

376. **Leptonia formosa** Fr.

Var. **suavis** Lasch.

N.E.—Among *Equisetum*, Scarborough. These specimens formed the basis of the first British record (Grev. xiii., p. 58; Cooke's Illustr. pl. 448).

The variety is recorded as having occurred at Scarborough; Allerthorpe (F.F., 1893); Campsall (F.F., 1899), and Mulgrave (F.F., 1894, 'Nat.', Nov.); but it is doubtful whether the type has been met with in Britain.

377. **Leptonia chloropolia** Fr.

N.E.—Scarborough. In grassy places in woods.

S.W.—Stainborough (F.F., 1897). Hebden Bridge (Fl. Hx.).

378. **Leptonia asprella** Fr.

N.E.—Scarborough. Stokesley (Exc., 1899). Rievaulx (F.F., 1903, 'Nat.', Nov.).

S.W.—Goitstock (Fl. Skipt.). Luddenden Dean (Fl. Hx.). In pastures.

NOLANEA, Fr.

379. **Nolanea pascua** (Pers.).

S.W.—" Grows in the Shroggs, the Burks, the North-Dean,

and several other woods about Halifax, as I have observed this year, 1787" (Bolton, Tab. 35).

Common in woods and pastures almost everywhere the greater part of the year.

380. **Nolanea mammosa** (L.).

S.W.—Field near Bingley Woods ('Nat.', Sep. 1891). Crimsworth Dean, 1892. Luddenden Dean, 1893, in pastures (Fl. Hx.).

Mid W.—Esholt (H.T.S., 'Nat.', Nov. 1891).

N.E.—In pasture. Helmsley (F.F., 1903, 'Nat.', Nov.).

381. **Nolanea pisciodora** (Ces.).

Mid W.—Studley Royal (F.F., 1881).

S.W.—Southowram, Hx.; Fixby (Fl. Hx.). Stainborough (F.F., 1897). Campsall (F.F., 1899).

S.E.—Escrick (F.F., 1896).

Smell resembling stale fish. Among decaying leaves and grass in and near woods. Not common.

382. **Nolanea nigripes** (Trog.).

N.E.—Scarborough.

S.W.—Hugsett (F.F., 1897).

In swampy places. Odour similar to *pisciodora*.

383. **Nolanea rufo-carnea** (Berk.).

S.W.—High Greenwood, Hebden Bridge, on heathy ground (Fl. Hx.).

384. **Nolanea icterina** Fr.

N.E.—Scarborough. In cultivated places.

S.W.—Hebden Bridge. In open grassy wood (Fl. Hx.).

385. **Nolanea infula** Fr.

N.E.—Arncliffe; among grass (F.F., 1894).

S.W.—Huddersfield (F.F., 1895). Goitstock.

ECCILIA Fr.

386. **Eccilia Parkensis** Fr.

Mid W.—East Keswick (F.F., 1898). Among grass.

387. **Eccilia carneo-grisea** (B. & Br.).

N.E.—Helmsley (* 'Nat.', Sep. 1884). Mulgrave (F.F., 1900)

388. **Eccilia griseo-rubella** (Lasch.).

Mid W.—East Keswick (F.F., 1898).

389. **Eccilia atropuncta** (Pers.).

Mid W.—Selby (F.F., 1884).

S.W.—On ground under *Petasites vulgaris*. Elland (Fl. Hx.). Potridings Wood (F.F., 1901).

N.E.—Mulgrave Woods (F.F., 1900). Abundant on the ground among moss.

390. **Eccilia rhodocylix** (Lasch.).

N.E.—Helmsley (F.F., 1903, 'Nat.', Nov.).

CLAUDOPUS Smith, 1873.

391. **Claudopus variabilis** (Pers.).

S.W.—"Adheres to stalks of withered plants, or the blades of grass in moist situations . . . Kebroyd Wood, in Soyland . . . September 1777" (Bolton, Tab. 72, f. 2). "On small putrid branches in the dark part of Elland Park [Wood]." (Bolton, unpublished Tab. in Brit. Mus. Nat. Hist. collection n. 553=*Ag. roseus*).

Common on decayed twigs, herbaceous stems, leaves, etc. in moist, shaded places in woods. Generally distributed.

392. **Claudopus depluens** (Batsch.).

N.E.—Scarborough. On the ground among moss.

393. **Claudopus byssisedus** (Pers.).

Mid W.—Bramham (F.F., 1888). East Keswick (F.F., 1898).

S.W.—On bare soil, Luddenden Dean (Fl. Hx.).

OCHROSPORÆ.

PLUTEOLUS Fr.

394. **Pluteolus reticulatus** (Pers.).

N.E.—Scarborough. On dead wood. Rare.

PHOLIOTA Fr.

395. **Pholiota aurea** (Matt.).

S.E.—Escrick (F.F., 1896).

396.—**Pholiota erebia** Fr. [Syn. *Ag. Leveillianus* D. & M.]

S.W.—Rastrick (Hud. Bot. Soc.). Bingley Woods

('Nat.', Sep. 1891). Huddersfield (F.F.,1895). Goitstock. Hardcastle, and other places about Hebden Bridge. Stainland; Northdean Wood, Manor Heath, and Clover Hill, Hx. (Fl. Hx.). Hugsett and Stainborough (F.F., 1897).

N.E.—Scarborough. Castle Howard (F.F., 1892). Mulgrave (F.F., 1894).

Mid W.—Harewood (F.F., 1898). Grassington (Exc. 1900).

On the ground in grassy or bare places in shrubberies, plantations, and woods. Frequent.

397. **Pholiota ombrophila** Fr.

S.W.—Woods near Hebden Bridge (Fl. Hx.). Melton Woods (F.F., 1901).

398. **Pholiota togularis** (Bull.).

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

S.W.—Elland Park Wood, Hx. (Fl. Hx.). Owston (F.F., 1899). Cadeby (F.F., 1901).

In grassy woodlands. Not common.

399.—**Pholiota dura** (Bolt.).

S.W.—Halifax (Bolton, Tab. 67, f. 1). The mature specimens are figured as being devoid of ring. There is an unpublished drawing by Bolton of this sp. in Brit. Mus. Nat. Hist. n. 555, found "In the Shroggs (Halifax), Sep. 1794."

"Carr Pit ballast heap, and occasionally from other localities" (Hud. Bot. Soc.). Has been rediscovered at Halifax, in the shrubbery, Bermerside (H. Lawson, 1902), and in a corn patch in field near Park Nook, 1902 (Fl. Hx.).

S.E.—Escrick (F.F., 1896).

400. **Pholiota præcox** (Pers.).

On the ground, in waste places, waysides, borders of woods, etc., in spring. Frequent. Distribution general. Recorded from all the county divisions.

401. **Pholiota radicosa** (Bull.).

N.E.—Scarborough. Thirsk (* 'Nat.', Nov. 1882). Mulgrave (F.F., 1900).

S.W.—Edlington (F.F., 1891).

S.E.—Everingham (F.F., 1893).

About tree stumps in woods. Distinguished by its attenuated, rooting stem, almost free gills, and strong scent.

402. **Pholiota ægerita** Fr.

N.E.—Egton Bridge (F.F., 1902, 'Nat.', Nov.).

403. **Pholiota comosa** Fr.

S.W.—"Grows under the roots of trees in woods where the soil is dry . . . in great plenty, Oct. 1786 . . . in steep part of wood called Ramsden" [Hx.] (Bolton, Tab. 42). Owston (F.F., 1899).

Mid W.—Wood-yard, Selby, fine specimen (F.F., 1896).

On beech roots, trunks, or logs. Somewhat rare.

404. **Pholiota aurivella** (Batsch).

S.W.—Northdean Wood, Hx. ('Nat.', Sep. 1892). Heath, Hx. (Fl. Hx.).

On trunks. Semi-parasitic. Rather rare.

405. **Pholiota squarrosa** (Müll.).

S.W.—Wharncliffe (* 'Nat.', Oct. 1878), etc., etc.

Semi-parasitic. Common on both living and dead tree-trunks, chiefly ash. Distribution general. Has a preference for living ash, at the trunk-base of which it often produces great heaps of sporophores. It was noticed at Halifax to persist in its attack upon a fine full-grown ash for eight years in succession, 1889-97, (Halifax Nat., Vol. VI. pp. 108-9), when the tree finally collapsed. Has been noted at the base of living laburnum trunks in several gardens here (Fl. Hx.).

Var. **Mülleri** Fr.

S.W.—Fixby (John Carter, Hud. Bot. Soc.). Huddersfield (F.F., 1895). Midgehole Wood, Hebden Bridge (Fl. Hx.).

S.E.—Escrick (F.F., 1896).

N.E.—Helmsley (F.F., 1903, 'Nat.', Nov.).

406. **Pholiota spectabilis** Fr.

S.W.—Storthes Hall (Hud. Bot. Soc.). Edlington Woods (F.F., 1891). Huddersfield (F.F., 1895). Owston and Sutton (F.F., 1899). Elland and Midgley, Hx., Pecket Wood, Hebden Bridge (Fl. Hx.).

Mid W.—Horsforth (J. Carter, Hud. Bot. Soc.). Bramham (F.F., 1898).

N.E.—Mulgrave Woods (F.F., 1900).

N.W.—Masham ('Nat.', Jan. 1902).

407. **Pholiota adiposa** Fr.

N.E.—Mulgrave (F.F., 1902,'Nat.', Nov.). On ash trunks.

Semi-parasitic, on ash, beech, plum, silver fir, etc.

408. **Pholiota flammans** Fr.

N.E.—Raincliff. Scarborough. Arncliffe (F.F., 1902, 'Nat.', Nov.).

S.E.—Everingham (F.F., 1893).

On fallen pine trunks and among pine leaves.

409. **Pholiota Junonia** Fr.

N.E.—Scarborough. On trunks.

410. **Pholiota dissimulans** (B. & Br.).

Mid W.—Bishop's Wood, near Selby (F.F., 1896).

S.W.—Nut Clough, Hebden Bridge. Among dead sticks (Fl. Hx.).

S.E.—Escrick.

411. **Pholiota mutabilis** (Schæff.).

Not uncommon on and about dead stumps; often in great fascicles. Distribution general. Has been met with in all the county divisions. Said to be edible.

412. **Pholiota marginata** (Batsch).

Mid W.—Studley Royal (F.F., 1881). Bolton Wood (Fl. Skipt.).

N.E.—Scarborough. Castle Howard (F.F., 1892). Mulgrave Woods (F.F., 1900). Helmsley (F.F., 1903, 'Nat.', Nov.).

S.W.—Huddersfield (F.F., 1895).

N.W.—Masham. On pine leaves, trunks, etc.

413. **Pholiota mustelina** Fr.

S.W.—Salterhebble, Hx. On the ground under bramble bush; and on decaying stump, Luddenden Dean (Fl. Hx.).

414. **Pholiota unicolor** (Fl. Dan.).

N.E.—Scarborough. Castle Howard (F.F., 1892).

Helmsley (F.F., 1903, 'Nat.', Nov.). On decaying trunks and branches.

415. **Pholiota pumila** Fr.

S.E.—Kirkham Abbey ('Nat.', Nov. 1889).

S.W.—On mossy ground, Idle ('Nat.', Sep. 1891). Hebden Bridge, 1892 (Fl. Hx.). Among moss.

416. **Pholiota mycenoides** Fr.

S.W.—Among Sphagnum on several of the moors to the W. & N.W. of Halifax, June, 1901. Up to 1400 ft. alt. Almost always accompanied by *Collybia clusilis* (Fl. Hx.).

INOCYBE Fr.

417. **Inocybe hystrix** Fr.

N.E.—Scarborough. In beech woods.

S.W.—High Greenwood. Under beech tree (Fl. Hx.).

418. **Inocybe relicina** Fr.

Mid W.—Scotland Mill Wood, Adel (Lees' Fl.).

S.W.—High Greenwood. In moist places near firs (Fl. Hx.).

419. **Inocybe calamistrata** Fr.

S.W.—High Greenwood and Pecket Wood, near Hebden Bridge ('Nat.', Sep. 1892). Under fir trees.

420. **Inocybe lanuginosa** (Bull.).

S.W.—Hebden Bridge (Fl. Hx.).

N.W.—Masham ('Nat.' Jan. 1892).

N.E.—Helmsley (F.F., 1903, 'Nat.', Nov.).

On the ground in mixed woods.

421. **Inocybe dulcamara** (A. & S.).

N.E.—Scarborough. In pine and mixed woods.

S.W.—Potridings Wood (F.F., 1901).

422. **Inocybe plumosa** (Bolton).

S.W.—"This curious and beautiful Agaric, I gathered in a little steep wood, belonging to the farm called Ramsden, in Ovenden, near Halifax, Aug. 1787; it grew in plenty there." (Bolton, Tab. 33).

S.E.—Everingham (F.F., 1893). In fir plantation.

423. **Inocybe cincinnata** Fr.

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

S.W.—Sutton (F.F., 1899). In beech wood.

424.—**Inocybe pyriodora** (Pers.).

Mid W.—Studley Royal (F.F., 1881). Selby (F.F., 1896). Haddlesey (Lees' Fl.).

S.E.—Skipwith (F.F., 1884). Blackwood (F.F., 1896).

S.W.—Edlington (F.F., 1891). Huddersfield (F.F., 1895). Campsall (F.F., 1899). In mixed woods.

N.E.—Welham Park (F.F., 1892). Scarborough. Arncliffe (F.F., 1894). Mulgrave Woods (F.F., 1894). Rievaulx and Helmsley (F.F., 1903, 'Nat.', Nov.).

425. **Inocybe incarnata** Bres.

N.E.—Scarborough. In woods.

S.E.—Everingham (F.F., 1893).

S.W.—Campsall (F.F., 1899).

N.W.—Masham ('Nat.', Jan. 1902).

426. **Inocybe scaber** (Müll.).

S.W.—Halifax (Bolton, unpublished Tab. in Brit. Mus. Nat. Hist. collection, n. 610.—Ag. scaber, Fl. Dan. t. 832, f. 3). Nab Wood, Saltaire (Lees' Fl.). High Greenwood, Hebden Bridge (Fl. Hx.).

Mid W.—Beckwithshaw (F.F., 1881). Bramham (F.F., 1888).

N.E.—Scarborough. In mixed woods.

427. **Inocybe lacera** Fr.

S.W.—Lee Wood, Heptonstall (Fl. Hx.).

N.W.—Masham ('Nat.', Jan. 1902).

428. **Inocybe flocculosa** Berk.

S.W.—Lee, Heptonstall. On naked ground (Fl. Hx.).

N.E.—Mulgrave Woods (F.F., 1900).

429. **Inocybe Bongardii** (Weinm.).

S.W.—Edlington Woods (F.F., 1891).

430. **Inocybe mutica** Fr.

N.E.—Mulgrave Woods (F.F., 1900). Helmsley (F.F., 1903, 'Nat.', Nov.).

431. **Inocybe carpta** (Scop.).

N.E.—Arncliffe Woods (F.F., 1894). On bare ground.

432. **Inocybe obscura** (Pers.).

S.E.—Kirkham Abbey (* 'Nat.', Nov. 1889). South Cave (A. R. Warnes).

S.W.—Heaton (Lees' Fl.). Lee and Pecket Woods, near Hebden Bridge (Fl. Hx.).

Mid W.—Harewood (F.F., 1898).

433. **Inocybe echinata** (Roth.).

N.E.—Scarborough, on soil in J. W. Woodall's conservatory.

S.W.—Campsall (F.F., 1899). Potridings Wood (F.F., 1901).

On loose peat soil in conservatories, gardens and woods.

434. **Inocybe fibrosa** (Sow.).

S.W.—Heaton Woods (Lees' Fl.).

435. **Inocybe fastigiata** (Schæff.).

S.W.—Roche Abbey Valley (Lees' Fl.).

S.E.—Kirkham Abbey (* 'Nat.', Nov. 1889).

N.E.—Scarborough. Castle Howard (F.F., 1892).

Among grass in mixed woods.

436. **Inocybe Godeyi** Gillet.

N.E.—Arncliffe Woods (F.F., 1902).

First British record ('Nat.', Nov. 1902).

437. **Inocybe hiulca** Fr.

N.E.—Scarborough. On the ground in pine woods.

S.W.—Luddenden Dean, Hx. In mixed wood (A. Clarke, Fl. Hx.).

438. **Inocybe rimosa** (Bull.).

Common on the ground in open woods everywhere.

439. **Inocybe asterospora** Quel.

Almost as common, in some places more so, and as widely distributed as *I. rimosa;* grows in similar situations.

440. **Inocybe eutheles** (B. & Br.).

S.W.—Crimsworth Dean. In pine plantation (Fl. Hx.).

N.E.—Staithes (* 'Nat.', Ap. 1898). Mulgrave Woods (F.F., 1900).

Mid W.—East Keswick (F.F., 1898).

441. **Inocybe destricta** Fr.

N.E.—Scarborough. Arncliffe (F.F., 1894). Mulgrave (F.F., 1900).

S.W.—Hardcastle and other places near Hebden Bridge.

On the ground among pine leaves, etc. (Fl. Hx.).

442. **Inocybe perbrevis** (Weinm.).

N.E.—Scarborough. First British record (Grev. xiii., p. 90; Cooke's Illustr. pl. 519).

443. **Inocybe descissa** Fr.

N.E.—Castle Howard; Welham Park (F.F., 1892).

444. **Inocybe Trinii** (Weinm.).

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

445. **Inocybe sambucina** Fr.

N.E.—Mulgrave Woods (F.F., 1900).

446. **Inocybe Clarkii** (B. & Br.).

N.E.—Scarborough. On the ground in shady places. Arncliffe Woods (F.F., 1902, 'Nat.', Nov.).

447. **Inocybe geophylla** (Sow.).

Common on grassy ground, rarely on bare ground, in, and on the borders of woods. Distribution general.

448. **Inocybe violaceo-fusca** Cke. & Mass.

N.E.—Scarborough. Among grass in open places.

449. **Inocybe subrimosa** Mass.

S.W.—Huddersfield (F.F., 1895).

On the ground among grass.

450. **Inocybe trechispora** (Berk.).

S.W.—Roche Abbey Valley; Heaton Wood (Lees' Fl.).

Mid W.—Airdale (Tr. Y.N.U., ii.).

451. **Inocybe vatricosa** Fr.

N.E.—Mulgrave Woods (F.F., 1900).

452. **Inocybe adequata** Britz.

N.E.—Castle Howard, and Malton (F.F., 1892).

First British record ('Nat.', Dec. 1892).

HEBELOMA.

453. **Hebeloma fastibile** Fr.

Mid W.—Bramham (F.F., 1888). Bolton Woods (Fl. Skipt.).

S.W.—Cleckheaton. Heptonstall. On old, rotting, cloth-tab hearthrug in Pecket Wood, Hebden Bridge (Fl. Hx.). Wakefield (W. Nat. Soc. 1903).

N.E.—Bulmer. Scarborough. Mulgrave Woods (F.F., 1900).

S.E.—Everingham (F.F., 1893).

Frequent on the ground in mixed woods.

454. **Hebeloma glutinosum** (Lindgr.).

Mid W.—Harewood (F.F., 1888).

S.W.—Huddersfield (F.F., 1895). Goitstock Woods, 1903.

S.E.—Blackwood (F.F., 1896).

N.E.—Egton Bridge (F.F., 1903, 'Nat.', Nov.).

Among decaying twigs, leaves, etc., especially beech.

455. **Hebeloma claviceps** Fr.

N.E.—Castle Howard (F.F., 1892). In woods.

456. **Hebeloma punctatum** Fr.

N.E.—Egton Bridge (F.F., 1902, 'Nat.', Nov.).

457. **Hebeloma versipelle** Fr.

N.E.—Scarborough. Among fir leaves in grassy places.

458. **Hebeloma mesophæum** Fr.

Mid W.—Bramham (F.F., 1888). Langstrothdale.

N.E.—Scarborough.

S.W.—Hebden Bridge (Fl. Hx.). Ecclesall Wood, Sheffield.

N.W.—Masham ('Nat.', Jan. 1902).

459. **Hebeloma sinapizans** Fr.

N.E.—Scarborough. Mulgrave Woods (F.F., 1900). Rievaulx and Helmsley (F.F., 1903, 'Nat.', Nov.). In woods.

460. **Hebeloma crustuliniforme** (Bull.).

Frequent on heavy soil in open places in mixed woods. Distribution general. Recorded for all the county divisions.

Var. **minor** Cke.

S.W.—High Greenwood, Hebden Bridge (Fl. Hx.). Stainborough (F.F., 1897).

461. **Hebeloma elatum** (Batsch.).

N.E.—Scarborough. Among pine leaves.

S.E.—Blackwood (F.F., 1896).

462. **Hebeloma longicaudum** (Pers.).

S.W.—Roche Abbey Valley; Saltaire (Lees' Fl.). Elland Park Wood (J. Wms. Sutcliffe, Fl. Hx.).

N.E.—Scarborough. Mulgrave Woods (F.F., 1900). Rievaulx (F.F., 1903, 'Nat.', Nov.). In woods, not common.

463. **Hebeloma truncatum** (Schæff.).

N.E.—Scarborough. Among grass in woods.

464. **Hebeloma ischnostylum** Cke.

S.W.—Among grass in plantation, Stainland, Hx. (Fl. Hx.). Field near Goistock Wood. Potridings Wood, Sprotborough (T. Gibbs).

465. **Hebeloma nauseosum** (Cke.).

N.E.—Scarborough. On the ground in mixed woods.

S.W.—Hugsett (F.F., 1897).

466. **Hebeloma petiginosum** Fr.

N.E.—Mulgrave (F.F., 1900). On the ground in beech wood.

FLAMMULA Fr.

467. **Flammula lenta** (Pers.).

Mid W.—Harewood (F.F., 1888).

N.E.—Scarborough.

S.W.—Fixby, 1894 (Fl. Hx.).

On stumps, or on the ground in mixed woods.

468. **Flammula mixta** Fr.

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

On the ground in woods. Rare.

469. **Flammula gummosa** (Lasch).

S.E.—Blackwood, Selby (F.F., 1896). On old stump.

470. **Flammula spumosa** Fr.

N.E.—Scarborough. Egton Bridge (F.F., 1902, 'Nat.', Nov.).

S.W.—Heaton (Lees' Fl.) Northdean Wood, Hx. ('Nat.', Sep. 1892).

471. **Flammula carbonaria** Fr.

S.W.—Shipley Glen, 1884 (Lees' Fl.). In foundry yard, Hebden Bridge. Elland Park Wood (Fl. Hx.). Cadeby (F.F., 1901). Ecclesall Wood, Sheffield.

Mid W.—Bramham (F.F., 1888).

N.E.—Scarborough. Castle Howard (F.F., 1892).

S.E.—Escrick (F.F., 1896).

On charred stumps, or burnt soil, in woods. Frequent.

472. **Flammula fusa** (*Agaricus fusus* Batsch).

S.W.—"Grows in woods about Halifax, frequent in September and October." (Bolton, Tab. 5 = *Ag. pomposus*).

473. **Flammula alnicola** Fr.

N.E.—Scarborough. Helmsley (F.F., 1903, 'Nat.', Nov.).

S.W.—On fallen thorn-branches, Goitstock. Royal Wood, Scammonden (A. Clarke).

474. **Flammula flavida** (Schæff.)

N.E.—Scarborough. On trunks. Claughton ('Nat.', Jan. 1892).

475. **Flammula inopoda** Fr.

S.W.—Plantation, Fixby Hall, 1790 (Bolton, Tab. 148 = *Ag. ramoso-radicatus*). Cottingley ('Nat.', Sep. 1891). Edlington Woods (F.F., 1891). Hugsett (F.F., 1897). Hebden Bridge (Fl. Hx.).

N.E.—Scarborough. Castle Howard (F.F., 1892). On pine trunks.

S.E.—Everingham (F.F., 1893).

N.W.—Masham ('Nat.', May 1903).

476. **Flammula apicrea** Fr.

N.E.—Scarborough. Cæspitose, on rotten trunks.

477. **Flammula hybrida** Fr.

N.E.—Scarborough. First recorded as British from here. Helmsley (F.F., 1903, 'Nat.', Nov.).

Mid W.—Selby (Tr. Y.N.U., ix.).

S.W.—Ovenden, Hx. ('Nat.', Dec. 1890). Goitstock (Fl. Skipt.).

478. **Flammula sapinea** Fr.

Common on dead trunks and stumps in woods. Distribution general. Recorded for all the county divisions.

Var. **terrestris** Fr.

S.W.—A form occurs on the moors around Halifax, July, Aug. and Sept., on the ground among *Calluna vulgaris*, etc. Norland Moor ('Nat.', Sep. 1892). 1899, Langfield Moor. 1903, Midgley Moor, alt. 1250 ft. (Fl. Hx.).

479. **Flammula picrea** Fr.

S.E.—Blackwood (F.F., 1896).

S.W.—Owston (F.F., 1899).

N.W.—Masham ('Nat.', Jan. 1902). On pine stumps. Rare.

480. **Flammula ochrochlora** Fr.

N.E.—Scarborough. On old trunks.

The first British record is based on the Scarborough specimens (Grev. xiv., p. 37; Cooke's Illustr., pl. 616).

NAUCORIA Fr.

481. **Naucoria obtusa** Cke. & Mass.

N.E.—On the ground, Scarborough. The sp. was established from the Scarborough specimens (Grev. xviii., p. 52; Cooke's Illustr., pl. 1155).

482. **Naucoria cucumis** (Pers.).

S.W.—Edlington (F.F., 1891). Clover Hill, Hx. (H.T.S.). Luddenden Dean, 1895 (Fl. Hx.). In gardens, and on loose soil in woods. Has a smell similar to cucumber.

483. **Naucoria cerodes** Fr.

N.E.—Scarborough. Bulmer.

Mid W.—Langstrothdale.

S.W.—Savin Royd (F.F., 1897). Pecket Wood, Hebden Bridge (Fl. Hx.).

On burnt soil; among moss, etc.

484. **Naucoria melinoides** Fr.

S.W.—Roche Abbey Valley; Peel Park, Bradford (Lees' Fl.). Luddenden Dean (Fl. Hx.).

Mid W.—Bramham (F.F., 1888).

N.E.—Scarborough. Thirsk (W. Foggitt, Exc. Circ., May 1892). Egton Bridge (F.F., 1902, 'Nat.', Nov.).

N.W.—Bowes (* 'Nat.', Sep. 1903).

On roadsides, lawns, and in pastures.

485. **Naucoria nucea** (Bolton).

S.W.—"This species came up in abundance, among the young fir trees in the new plantation, near Mount Pellon, Hx., in October 1787. I have seen it in other places, in dry and barren soils, amongst heath and furze bushes" (Bolton Tab. 70). Agrees with Swedish, Russian and Scotch specimens. Cooke's Illustr., pl. 490A, is after Bolton.

486. **Naucoria badipes** (Pers.).

N.E.—Helmsley (F.F., 1903, 'Nat.', Nov.).

487. **Naucoria hydrophila** Mass.

N.E.—Scarborough. In moist places under trees.

First described from the Scarborough specimens, and figured in Cooke's Illustr., pl. 1172A, as *Ag.* (*Naucoria*) *nasutus* Kalchbr. "The present species was referred by Cooke to *Ag. nasutus*, an Australian fungus, from which, however, it is perfectly distinct, neither is it referable to any other known species" (Mass. Brit. Fung. Fl., ii., p. 160).

488. **Naucoria scolecina** Fr.

S.W.—Stainborough (F.F., 1897). Under alders.

In pasture, Wakefield (W. Nat. Soc., 1903).

489. **Naucoria striæpes** Cke.

S.W.—Among grass, on soil heap, Elland (Fl. Hx.).

490. **Naucoria sideroides** (Bull.).

Mid W.—Meanwood (Tr. Y.N.U., ix., p. 214; and Lees' Fl., p. 678, as *scorpioides*).

491. **Naucoria pediades** Fr.

N.E.—Scarborough. In pasture.

Mid W.—Langstrothdale.

S.W.—On lawn, Skircoat, Hx. (Fl. Hx.). Huddersfield (F.F., 1895).

N.W.—Brignall Banks (* 'Nat.', Sep. 1903).

492. **Naucoria semiorbicularis** (Bull.).

S.W.—Roche Abbey Valley (Lees' Fl.). Shaw Syke, Hx. (H.T.S.). High Greenwood, and Hurstfields, near Hebden Bridge (Fl. Hx.). Kirklees.

Mid W.—Baildon; Hawkesworth (Lees' Fl.).

N.E.—Scarborough. Castle Howard (F.F., 1892).

493. **Naucoria tabacina** DC.

S.W.—Crimsworth Dean, Hebden Bridge, 1903(Fl.Hx.Add.)

494. **Naucoria myosotis** Fr.

N.E.—Scarborough. In damp localities, swamps, among *Sphagnum*, etc. The first British record (Grev., xiii., p. 59) was made from the Scarborough specimens.

495. **Naucoria temulenta** Fr.

N.E.—Scarborough. Egton Bridge (F.F., 1902, 'Nat.', Nov.). Helmsley (F.F., 1903, 'Nat.', Nov.). In moist woods.

N.W.—Masham ('Nat.', Jan. 1902).

S.W.—Redmires, near Sheffield. Baildon (J. E. Sutcliffe).

496.—**Naucoria sobria** Fr.

N.E.—Mulgrave (F.F., 1900). Limber Wood, near Egton Bridge (F.F., 1902, 'Nat.', Nov.). On the ground. Rare.

497. **Naucoria erinacea** Fr.

N.E.—Scarborough. On dead branches. Rare.

498. **Naucoria siparia** Fr.

Mid W.—Otley Chevin (Lees' Fl. Add.).

S.W.—Hugsett (F.F., 1897). On decaying vegetation.

499. **Naucoria conspersa** Fr.

N.E.—Mulgrave (F.F., 1900). Egton Bridge (F.F., 1902, 'Nat.', Nov.). On the ground among dead leaves.

500. **Naucoria escharoides** Fr.

Mid W.—Esholt (Lees' Fl.).

S.W.—Luddenden Dean. On damp ground (Fl. Hx.).

N.W.—Masham ('Nat.', Jan. 1902).

501. **Naucoria carpophila** Fr.

N.E.—Egton Bridge (F.F., 1902, 'Nat.', Nov.).

502. **Naucoria graminicola** (Nees.).

S.W.—Hardcastle, Hebden Bridge, Elland Park Wood. On decaying grass and rush stems (Fl. Hx.).

GALERA.

503. **Galera lateritia** Fr.

Mid W.—Church Fenton (Lees' Fl.).

504. **Galera tenera** (Schæff.).

S.W.—Halifax (Bolton, Tab. 66, f. 2).

Common in pastures and grassy spots in woods. Distribution general.

505. **Galera campanulata** Mass.

N.E.—Scarborough. Gregarious on road scrapings and in dry places on roadsides. "The pileus and stem become nearly or sometimes quite white when dry. Cooke at one time considered this species a form of *Galera siliginea*, and figured it under that name (Illustr., Pl. 1156) adding in the Handbook [ed. 2] p. 376: 'The variety figured turns pale when dry, thus differing from the type'" (Mass. Brit. Fung. Fl., ii., p. 146).

506. **Galera ovalis** Fr.

N.E.—Castle Howard (F.F., 1892).

S.W.—Huddersfield (F.F., 1895). Warley; Norland; Stainland; Skircoat; etc., Hx. Hebden Bridge (Fl. Hx.) Cullingworth.

Mid W.—Field near Bishop's Wood (F.F., 1896).

N.W.—Sedbergh (Exc. 1902).

Among grass in rich pastures, and on lawns.

507. **Galera antipoda** (Lasch).

N.E.—Scarborough.

S.W.—Sutton (F.F., 1899). On rich soil.

508. **Galera conferta** (Bolt.).

S.W.—"Grows amongst the bark in hot-houses. The specimens figured and described, grew in the Pine-stove of J. Caygill, Halifax, Nov. 1785" (Bolton, Tab. 18).

509. **Galera spartea** Fr.

S.W.—"Grows in dry and barren pasture ground amongst various kinds of moss," Halifax (Bolton, Tab. 51, f. 1).

Frequent among short grass, and moss. Distribution general.

510. **Galera rubiginosa** (Pers.).

N.E.—Mulgrave Woods (F.F., 1900). Among moss.

511. **Galera hypnorum** (Batsch).

S.W.—Northdean Wood ('Nat.', Oct. 1877), etc., etc.

Very common on mosses and hepatics in woods, and on shaded banks, rocks, walls, etc. Widely distributed; invariably grows among moss or liverwort. Has been noted in the Halifax and Hebden Bridge districts among the following:—*Webera nutans*, *Dicranella heteromalla*, *Mnium hornum*, *Plagiothecium Borrerianum*, *P. sylvaticum*, *Tetraphis pellucida*, and several species of hepatics.

Var. **sphagnorum** Fr.

Mid W.—In Sphagnum swamps, Rombald's Moor (Lees' Fl.).

S.W.—On Sphagnum, Goitstock. Much larger than the type.

512. **Galera mniophila** Fr.

N.E.—Scarborough. Among moss.

513.—**Galera minuta** (Quel.).

S.W.—Luddenden Dean (Fl. Hx.).

N.W.—Masham ('Nat.', Jan. 1902).

514. **Galera mycenopsis** Fr.

S.W.—On dead moss. Hardcastle, 1894 (Fl. Hx.).

TUBARIA Sm.

515. **Tubaria furfuracea** (Pers.).

S.W.—Rawcliffe ('Nat.', May 1877), etc., etc.

Common on twigs, herbaceous stems, chips, humus, etc., in moist, shaded places. Distribution general.

Var. **trigonophylla** Lasch.

S.W.—Midgehole, Hebden Bridge, 1892 (Fl. Hx.).

516. **Tubaria paludosa** Fr.

S.W.—Swampy ground in Nab Wood, Saltaire (Lees' Fl.).

N.E.—Scarborough. Arncliffe Woods (F.F., 1894).

517. **Tubaria stagnina** Fr.

N.E.—Scarborough. Arncliffe Woods (F.F., 1894).

S.W.—Hugsett (F.F., 1897). In Sphagnum swamps.

518. **Tubaria embola** Fr.

N.E.—Scarborough ('Nat.', June 1881).

Mid W.—On heathy ground. Baildon Moor (Lees' Fl.).

519. **Tubaria crobula** Fr.

S.W.—Rockley (F.F., 1897). Among twigs.

520. **Tubaria inquilina** Fr.

N.E.—Scarborough. On rotten twigs.

S.W.—Hebden Bridge. Ovenden, Hx. ('Nat.', Sept. 1892).

N.W.—Masham ('Nat.', Jan. 1902).

521. **Tubaria muscorum** (Pers.).

N.E.—Helmsley (F.F., 1903, 'Nat.', Nov.). Among moss.

CREPIDOTUS Fr.

522. **Crepidotus mollis** (Schæff.).

S.W.—Halifax. "On the decaying stump of an elm tree, Aug. 1799" (Bolton, Tab. 71, f. 2), Goole ('Nat.', June 1881), etc., etc.

Common on rotting stumps, trunks, branches, sawdust, humus, etc. Has often been recorded for all the county divisions.

523. **Crepidotus alveolus** (Lasch).

Mid W.—On dead trees, Malham, 1882 (Lees' Fl.).

524. **Crepidotus putrigenus** (Berk. & Curt.).

N.E.—Mulgrave Woods (F.F., 1900). Growing from the sides and sawn end of a beech log buried in bracken.

First British record ('Nat.', Nov. 1900).

525. **Crepidotus applanatus** (Pers.).

N.E.—Egton Bridge (F.F., 1902, 'Nat.', Nov.).

526. **Crepidotus rubi** Berk.

S.W.—Roche Abbey Valley; on dead bramble, rare (Lees' Fl.).

Mid W.—Airdale (Lees' Fl.).

527. **Crepidotus chimnophilus** (B. & Br.).

S.W.—On logs in a wood-yard, Steeton, 1885 (Lees' Fl.).

528. **Crepidotus epigæus** (Pers.).

N.E.—Scarborough. On clayey ground.

BOLBITIUS Fr.

529. **Bolbitius flavidus** (Bolton).

S.W.—Halifax. "Grows on dunghills, after rain, in June and July" (Bolton Tab. 149=*Ag. flavidus*). This tab. has been quoted by Berkeley, Cooke, and others, as *Bolbitius Boltoni* Fr.' "As stated under *Bolbitius Boltoni* Fr., the true species called *Agaricus flavidus* by Bolton, is quite distinct from the species of Fries, the principal point of distinction being that in the present species the pileus is obtuse or subgibbous and not darker at the disc than elsewhere, the free gills, and the plant not becoming dry and papery at maturity, but deliquescing" (Mass. Brit. Fung. Fl., ii., p. 204).

On rotting cloth hearthrug in Pecket Wood, Hebden Bridge (Fl. Hx.). Goitstock.

N.E.—Helmsley (F.F., 1903, 'Nat.', Nov.). In meadow.

530. **Bolbitius vitellinus** Fr.

N.E.—Bulmer. Scarborough. On dung and in rich pastures.

531. **Bolbitius fragilis** Fr.

S.W.—"Grows in meadows and pasture grounds about Halifax, in July and August" (Bolton Tab. 65). Fixby (Fl. Hx.). On dung in pasture.

Mid W.—Selby (Lees' Fl.).

N.E.—Scarborough. Helmsley (F.F., 1903, 'Nat.', Nov.).

532. **Bolbitius apicalis** Sm.

N.E.—Scarborough.

N.W.—Masham. In pastures.

533. **Bolbitius titubans** (Bull.) Fr.

Mid W.—Meanwood (Lees' Fl.). Harewood (F.F., 1898). Grassington and Askham Bog (Excs. 1900).

N.E.—Scarborough. Egton Bridge (F.F., 1902, 'Nat.', Nov.). Rievaulx (F.F., 1903, 'Nat.', Nov.).

N.W.—Masham ('Nat.', Jan. 1902). In rich meadows.

S.W.—On mushroom bed, Bermerside (Fl. Hx.).

S.E.—Hornsea, in pasture (Hull S. & F. N. C.).

534. **Bolbitius conocephalus** (Bull.).

N.E.—Rievaulx (F.F., 1903, 'Nat.', Nov.).

535. **Bolbitius tener** (Berk.).

S.W.—Roche Abbey Valley (Lees' Fl.). Huddersfield (Hud. Bot. Soc.).

N.E.—Scarborough. In meadows and pastures.

Mid W.—Baildon (Lees' Fl.). Harewood (F.F., 1898).

N.W.—Masham ('Nat.', Jan. 1902).

536. **Bolbitius grandiusculus** Cke. & Mass.

N.E.—Scarborough. Among grass. This species was founded on the Scarborough specimens (Cooke's Illustr., pl. 1159).

CORTINARIUS Pers.

All species of *Cortinarius* are autumnal, and grow on the ground, mostly in woods, or among grass under trees (Mass. Brit. Fung. Fl.).

Sub-Gen. *PHLEGMACIUM.*

537. **Cortinarius** (Phleg.) **balteatus** Fr.

S.W.—Goitstock. Among dead leaves.

538. **Cortinarius** (Phleg.) **sebaceus** Fr.

S.W.—High Greenwood, Hebden Bridge ('Nat.', Nov. 1891).

539. **Cortinarius** (Phleg.) **varius** (Schæff.).

N.E.—Scarborough. Egton Bridge (F.F., 1902, 'Nat.', Nov.). Helmsley (F.F., 1903, 'Nat.', Nov.).

S.W.—Maltby Wood (T. Gibbs).

540. **Cortinarius** (Phleg.) **cyanopus** Fr.

Mid W.—Helks Wood, Ingleton (Lees' Fl.).

N.E.—Scarborough. Castle Howard (G.M.). Helmsley (F.F., 1903, 'Nat.', Nov.).

S.W.—High Greenwood, Hebden Bridge (Fl. Hx.).

541. **Cortinarius** (Phleg.) **largus** Fr.

N.E. — Scarborough. Mulgrave Woods (F.F., 1894). Helmsley (F.F., 1903, 'Nat.' Nov.). Mostly near pines.

S.W.—Goitstock. Hardcastle (Fl. Hx.).

N.W.—Masham.

542. **Cortinarius** (Phleg.) **russus** Fr.

N.E.—Helmsley (F.F., 1903, 'Nat.', Nov.).

543. **Cortinarius** (Phleg.) **anfractus** Fr.

N.E.—Scarborough ('Nat.', May 1881).

S.W.—Edlington Wood (F.F., 1891). In mixed woods.

544. **Cortinarius** (Phleg.) **glaucopus** (Schæff.).

N.E.—Scarborough. In pine woods.

545. **Cortinarius** (Phleg.) **calochrous** Fr.

S.W.—Roche Abbey Valley (Lees' Fl.).

N.E.—Castle Howard (F.F., 1892).

546. **Cortinarius** (Phleg.) **cærulescens** Fr.

Mid W.—Studley Royal (F.F., 1881). Bramham (F.F., 1888).

N.E.—Thirsk ('Nat.', Nov. 1882).

547. **Cortinarius** (Phleg.) **purpurascens** Fr.

S.W.—Shipley Glen (Lees' Fl.). Cromwell Wood, Southouram; Ovenden, Hx. Hebden Bridge (Fl. Hx.).

N.E.—Scarborough. Arncliffe and Mulgrave Woods (F.F., 1894).

Var. **subpurpurascens** (Batsch.).

N.W.—Masham ('Nat.', Jan. 1902). Helmsley (F.F., 1903 'Nat.', Nov.).

Frequent in mixed woods.

548. **Cortinarius** (Phleg.) **fulgens** (A. & S.).

N.E.—Flamborough (G.M.). In pine woods. Rare.

S.W.—Edlington Woods (F.F., 1891).

549. **Cortinarius** (Phleg.) **orichalceus** (Batsch).

S.W.—Edlington Woods (F.F., 1891).

550. **Cortinarius** (Phleg.) **testaceus** Cke.

S.W.—Goitstock. Among dead leaves in a mixed wood.

551. **Cortinarius** (Phleg.) **atro-virens** Kalchbr.

N.E.—Scarborough. In pine woods.

These specimens formed the first British record (Grev. xv., p. 66, Cooke's Illustr. pl. 736).

552. **Cortinarius** (Phleg.) **crystallinus** Fr.

S.W.—Goitstock Wood, 1903.

553. **Cortinarius** (Phleg.) **decolorans** Fr.

N.E.—Castle Howard (F.F., 1892). In pine wood.

S.W.—High Greenwood, Hebden Bridge (Fl. Hx.).

554. **Cortinarius** (Phleg.) **porphyropus** Fr.

N.E.—Scarborough. Bulmer. In mixed woods.

Sub-Gen. *MYXACIUM.*

555. **Cortinarius** (Myxa.) **arvinaceus** Fr.

S.W.—Goitstock. Under beech trees.

556. **Cortinarius** (Myxa.) **collinitus** Fr.

S.E.—Skipwith ('Nat.', Dec. 1878).

N.E.—Scarborough.

Mid W.—Studley Royal (F.F., 1881).

S.W.—Bingley, and Shipley Glen (Lees' Fl.). Northdean Wood, Hx. ('Nat.', Sep. 1892).

557. **Cortinarius** (Myxa.) **mucifluus** Fr.

N.E.—Scarborough. Castle Howard (G.M.).

558. **Cortinarius** (Myxa.) **elatior** Fr.

S.W.—"In the wood called Wheatley Shroggs, near Halifax, Sep. 15th, 1794." (Bolton, Tab. 221, unpublished, Brit. Mus. Nat. Hist., n. 1025).

Not uncommon in moist, mixed woods. Distribution general.

559. **Cortinarius** (Myxa.) **livido-ochraceus** Berk.

S.W.—Edlington Woods (F.F., 1891). Goitstock.

Among dead leaves in mixed woods.

Sub-Gen. *INOLOMA.*

560. **Cortinarius** (Ino.) **opimus** Fr.

S.W.—Hardcastle, Hebden Bridge (Fl. Hx.). Rare.

561. **Cortinarius** (Ino.) **violaceus** (L.).

N.E.—Scarborough. Terrington (G.M.).

S.W.—Ovenden, Hx. ('Nat.', Sep. 1892). Heptonstall (Fl. Hx.). Goitstock (Fl. Skipt.). Edible.

562. **Cortinarius** (Ino.) **albo-violaceus** (Pers.).

N.E.—Scarborough.

S.W.—Goitstock; among fallen beech-leaves. Hardcastle (Fl. Hx.).

563. **Cortinarius** (Ino.) **malachius** Fr.

S.W.—High Greenwood, Hebden Bridge (Fl. Hx.).

564. **Cortinarius** (Ino.) **hircinus** Fr. Hym. Eur., p. 362.

S.W.—"Woodhouse, and some other woods about Halifax. in Aug. and Sep., but not plentifully" (Bolton, Tab. 52=*Ag. violaceus*).

Fœtid. "As a British species this rests entirely upon Bolton's figure" (Cooke, Hdbk., ed. ii., p. 253).

"Exactly intermediate between *C. camphoratus* and *C. traganus*. External colours and gills of the first; internally, and with the very fœtid odour of the second" (Mass. Brit. Fung. Fl., ii., p. 79, 1893.

N.E.—Rievaulx (F.F., 1903, 'Nat.', Nov.).

565. **Cortinarius** (Ino.) **tophaceus** Fr.

Var. **redemitus** Fr.

S.W.—Goitstock Woods, 1903.

566. **Cortinarius** (Ino.) **callisteus** Fr.

N.E.—Scarborough. In pine woods.

S.W.—High Greenwood, Hebden Bridge (Fl. Hx.).

Mid W.—Grassington (Exc., 1900).

567. **Cortinarius** (Ino.) **Bulliardi** Fr.

S.W.—Sim Wood, near Coley (Fl. Hx.).

568. **Cortinarius** (Ino.) **bolaris** (Pers.).

N.E.—Scarborough. Castle Howard (F.F., 1892). On the ground in beech woods.

569. **Cortinarius** (Ino.) **pholideus** Fr.

N.E.—Ganton (G.M.). Mulgrave Woods (F.F., 1900). Helmsley and Rievaulx (F.F., 1903, 'Nat.', Nov.).

S.W.—Ecclesall Wood.

570. **Cortinarius** (Ino.) **sublanatus** Fr.

S.W.—High Greenwood, Hebden Bridge (Fl. Hx.).

571. **Cortinarius** (Ino.) **penicillatus** Fr.

N.E.—Scarborough. In pine wood.

S.W.—Hebden Bridge (Fl. Hx.). Potridings Wood (F.F., 1901).

SUB-GEN. *DERMOCYBE.*

572. **Cortinarius** (Derm.) **ochroleucus** (Schæff).

MID W.—Bramham (F.F., 1888).

N.E.—Scarborough; Ganton; Filey (G.M.). Castle Howard (F.F., 1892). Mulgrave Woods (F.F., 1900). Helmsley (F.F., 1903, 'Nat.', Nov.).

S.E.—Escrick (F.F., 1896).

S.W.—Hebden Bridge (Fl. Hx.).

N.W.—Masham ('Nat.', Jan. 1902). Frequent in mixed woods.

573. **Cortinarius** (Derm.) **decumbens** (Pers.).

N.E.—Rievaulx (F.F., 1903, 'Nat.', Nov.).

574. **Cortinarius** (Derm.) **tabularis** Fr.

S.E.—Skipwith ('Nat.', Dec. 1878).

S.W.—Heaton; Bingley (Lees' Fl.).

N.E.—Arncliffe Woods (F.F., 1894).

575. **Cortinarius** (Derm.) **camurus** Fr.

S.W.—High Greenwood and Crimsworth Dean, Hebden Bridge (Fl. Hx.). Goitstock, 1903.

N.E.—Helmsley (F.F., 1903, 'Nat.', Nov.).

576. **Cortinarius** (Derm.) **diabolicus** Fr.

N.E.—Scarborough. In beech wood.

577. **Cortinarius** (Derm.) **caninus** Fr.

MID W.—Bramham; Harewood (F.F., 1888). Langstrothdale.

N.E.—Scarborough (Bot. Rep., 1879, Tr. iv.). Bulmer. Castle Howard (F.F., 1892). Mulgrave Woods (F.F., 1900). Helmsley (F.F., 1903, 'Nat.', Nov.).

S.E.—South Cave, 1903 (A. R. Warnes).

S.W.—Ecclesall Wood and Strines, Sheffield.

578. **Cortinarius** (Derm.) **azureus** Fr.

N.E.—Scarborough. Among leaves and moss.

579. **Cortinarius** (Derm.) **anomalus** Fr.

N.E.—Scarborough.

S.W.—Edlington (F.F., 1891).

S.E.—Everingham (F.F., 1893).

S.W.—Bingley Woods (Fl. Skipt.).

580. **Cortinarius** (Derm.) **lepidopus** Cke.

N.E.—Scarborough (Grev. xvi., pp. 43-4). On heathy ground. Probably a variety of *C. caninus*.

581. **Cortinarius** (Derm.) **cinnabarinus** Fr.

Mid W.—Cawood Wood (Lees' Fl.).

S.E.—Skipwith (F.F., 1884).

N.E.—Castle Howard (F.F., 1892).

582. **Cortinarius** (Derm.) **sanguineus** Fr.

Mid W.—Slaidburn (Lees' Fl.). Bolton Woods (Fl. Skipt.).

N.E.—Scarborough. Bulmer. Mulgrave Woods (F.F., 1900). Arncliffe (F.F., 1902, 'Nat.', Nov.). Rievaulx (F.F., 1903, 'Nat.', Nov.).

S.W.—Bingley (Fl. Skipt.). Midgehole, and Crimsworth Dean, near Hebden Bridge. In mixed woods (Fl. Hx.).

583. **Cortinarius** (Derm.) **cinnamomeus** (L.).

S.W.—"Grows in woods about Halifax, 1790" (Bolton Tab. 150).

Not uncommon in mixed woods. Distribution general.

Var. **semisanguineus** Fr.

S.W.—High Greenwood and Pecket Wood, Hebden Bridge (Fl. Hx.).

N.E.—Castle Howard (F.F., 1892).

584. **Cortinarius** (Derm.) **uliginosus** (Berk.).

S.W.—Sphagnum swamp, Nab Wood, Saltaire ('Nat.', Sep. 1891).

585. **Cortinarius** (Derm.) **valgus** Fr.

N.E.—Scarborough. Among moss in pine woods.

586. **Cortinarius** (Derm.) **orellanus** Fr.

N.E.—Helmsley (F.F., 1903, 'Nat.', Nov.).

Sub-Gen. *TELAMONIA*.

587. **Cortinarius** (Tela.) **laniger** Fr.

S.W.—Goitstock, among decaying beech-leaves.

588. **Cortinarius** (Tela.) **bivelus** Fr.

N.E.—Scarborough.

589. **Cortinarius** (Tela.) **bulbosus** (Sow.).

N.E.—Scarborough. In woods among moss, etc.

590. **Cortinarius** (Tela.) **torvus** Fr.

N.E.—Thirsk (*'Nat.', Nov. 1882). Scarborough, Arncliffe, and Mulgrave (F.F., 1894). Helmsley (F.F., 1903, 'Nat.', Nov.).

S.W.—High Greenwood, and Pecket Wood ('Nat.', Sep. 1892). Maltby Wood (T. Gibbs).

S.E.—Escrick (F.F., 1896). In mixed woods.

591. **Cortinarius** (Tela.) **impennis** Fr.

S.E.—Blackwood (F.F., 1896). In pine wood.

N.E.—Mulgrave Woods (F.F., 1900).

592. **Cortinarius** (Tela.) **evernius** Fr.

N.E.—Scarborough. Bulmer. Rievaulx (F.F., 1903, 'Nat.', Nov.). In damp pine woods.

593. **Cortinarius** (Tela.) **armillatus** Fr.

Mid W.—Selby (F.F., 1896).

N.E.—Scarborough. Arncliffe Woods (F.F., 1894).

S.E.—Skipwith (F.F., 1884). Pocklington (F.F., 1893). Blackwood (F.F., 1896).

S.W.—Wade Wood, Luddenden Dean, Hx. At one place under hazel bushes for six years in succession in September (1893-98). The first and second years they appeared in great abundance, thickly covering an area of 4-5 square yards; then gradually diminished in quantity until they altogether disappeared. Not seen at the same place since 1898 (J. Wms. Sutcliffe). Northdean Wood, Hx. (U. Bairstow). Hebden Bridge (Fl. Hx.). Ecclesall Wood. In mixed woods.

594. **Cortinarius** (Tela.) **hæmatochelis** (Bull.).

N.E.—Scarborough. It is very doubtful whether this is really more than a form of *C. armillatus*.

595. **Cortinarius** (Tela.) **limonius** Fr.

S.W.—Plantation near Cullingworth, 1884 (Lees' Fl.). Hatfield Moor, 1887 (Lees' Fl. Add., p. 812). Hatfield (*'Nat.', Mar. 1888). Crimsworth Dean, Hebden Bridge (Fl. Hx.). In fir wood.

596. **Cortinarius** (Tela.) **hinnuleus** Fr.

In mixed woods. Common. Variable in size and colour. Distribution general.

597. **Cortinarius** (Tela.) **gentilis** Fr.

Mid W.—Langstrothdale.

598. **Cortinarius** (Tela.) **brunneus** (Pers.).

N.E.—Scarborough. Mulgrave Woods (F.F., 1894).

S.W.—Maltby Wood (T. Gibbs).

599. **Cortinarius** (Tela.) **brunneofulvus** Fr.

N.E.—Scarborough. In pine woods, among moss.

600. **Cortinarius** (Tela.) **injucundus** Weinm.

S.W.—High Greenwood, Hebden Bridge (Fl. Hx.).

601. **Cortinarius** (Tela.) **glandicolor** Fr.

S.W.—In Sphagnum bog, Cullingworth (Fl. Skipt.).

602. **Cortinarius** (Tela.) **incisus** Fr.

N.W.—Sleightholme Beck, Bowes (* 'Nat.', Sep. 1903).

603. **Cortinarius** (Tela.) **iliopodius** (Bull.).

N.E.—Scarborough.

S.W.—Bingley (Lees' Fl.).

604. **Cortinarius** (Tela.) **hemitrichus** Fr.

S.E.—Skipwith (F.F., 1884). Blackwood (F.F., 1896).

N.E.—Scarborough. Arncliffe Woods (F.F., 1894). Helmsley (F.F., 1903, 'Nat.', Nov.).

In woods among moss, fallen leaves, etc.

605. **Cortinarius** (Tela.) **rigidus** Fr.

N.E.—Scarborough. Bulmer. Arncliffe (F.F., 1894). Rievaulx and Helmsley (F.F., 1903, 'Nat.', Nov.).

S.W.—Hebden Bridge (Fl. Hx.). In damp woods. Strong scented.

606. **Cortinarius** (Tela.) **paleaceus** Fr.

Mid W.—Bramham (F.F., 1888).

N.E.—Ganton (G.M.). Castle Howard (F.F., 1892). Mulgrave Woods (F.F., 1900). Helmsley (F.F., 1903).

S.W.—Hebden Bridge (Fl. Hx.).

Sub-Gen. *HYGROCYBE.*

607. **Cortinarius** (Hygr.) **firmus** Fr.

N.E.—Scarborough. Grassy places in mixed woods.

608. **Cortinarius** (Hygr.) **armeniacus** (Schæff.).

S.W.—Edlington Woods (F.F., 1891).

609. **Cortinarius** (Hygr.) **duracinus** Fr.

Mid W.—Bolton Woods ('Nat.', Sep. 1891).

610. **Cortinarius** (Hygr.) **illuminus** Fr.

N.E.—Scarborough. In pine woods (Cooke's Illustr. pl. 841).

611. **Cortinarius** (Hygr.) **tortuosus** Fr.

N.E.—Scarborough. In damp pine woods (Grev. xvi., p. 45; Cooke's Illustr. pl. 857).

612. **Cortinarius** (Hygr.) **dilutus** (Pers.).

S.W.—"Bracken-Bed-Wood, Ovenden, Oct. 1786" (Bolton Tab. 10=*Ag. castaneus*). Goitstock, 1902.

613. **Cortinarius** (Hygr.) **saturninus** Fr.

N.E.—Scarborough. Helmsley (F.F., 1903, 'Nat.', Nov.).

S.W.—Campsall (F.F., 1899). Hebden Bridge (Fl. Hx.).

614. **Cortinarius** (Hygr.) **castaneus** (Bull.).

Mid W.—Studley Royal (F.F., 1881). Meanwood (Lees' Fl.). Bolton Woods (Fl. Skipt.).

S.W.—Odsal Wood, Wibsey (Lees' Fl.). Hatfield ('Nat.', Mar. 1888). Pecket, and High Greenwood, Hebden Bridge; Luddenden Dean (Fl. Hx.).

N.E.—Scarborough. Ganton (G.M.).

Edible. Frequent in woodside pasture and grassy woods.

615. **Cortinarius** (Hygr.) **bicolor** Cke.

S.W.—Hardcastle, Hebden Bridge (Fl. Hx.). Huddersfield (F.F., 1895).

N.E.—Helmsley (F.F., 1903, 'Nat.', Nov.).

S.E.—South Cave, 1903 (A. R. Warnes).

616. **Cortinarius** (Hygr.) **jubarinus** Fr.

N.E.—Scarborough. On pine leaves.

N.W.—Masham.

S.W.—Pecket Wood, Hebden Bridge (Fl. Hx.).

617. **Cortinarius** (Hygr.) **irregularis** (Bolton).

S.W.—"Grows in dry and barren pasture and meadow ground, about Halifax, in great plenty in August and September" (Bolton, Tab. 13).

618. **Cortinarius** (Hygr.) **dolabratus** Fr.

N.E.—Scarborough. Egton Bridge (F.F., 1902, 'Nat.', Nov.). In pine woods. Smell strong and unpleasant, a fact not noticed in the text books.

619. **Cortinarius** (Hygr.) **rigens** (Pers.).

N.E.—Scarborough. In mixed woods.

620. **Cortinarius** (Hygr.) **Krombholzii** Fr.

N.E.—Scarborough. On the ground among moss.

The Scarborough specimens formed the first British record (Grev. xv., p. 66; Cooke's Illustr., pl. 813).

621. **Cortinarius** (Hygr.) **leucopus** (Bull.).

S.E.—Skipwith (F.F., 1884). Everingham (F.F., 1893).

N.E.—Scarborough, Bulmer. Egton Bridge (F.F., 1902, 'Nat.', Nov.). Helmsley (F.F., 1903, 'Nat.', Nov.).

In mixed woods.

622. **Cortinarius** (Hygr.) **erythrinus** Fr.

N.E.—Scarborough. Among leaves in damp woods.

623. **Cortinarius** (Hygr.) **decipiens** (Pers.).

N.E.—Scarborough.

S.W.—Crimsworth Dean, Hebden Bridge (Fl. Hx.).

624. **Cortinarius** (Hygr.) **detonsus** Fr.

N.E.—Scarborough. Among moss in damp pine woods. Helmsley (F.F., 1903, 'Nat.', Nov.).

625. **Cortinarius** (Hygr.) **obtusus** Fr.

S.W.—Goitstock Woods, 1903.

626. **Cortinarius** (Hygr.) **acutus** (Pers.).

Frequent in both fir and mixed woods. Distribution general. Recorded for all the county divisions.

627. **Cortinarius** (Hygr.) **Junghuhnii** Fr.

S.W.—Edlington Woods (F.F., 1891).

628. **Cortinarius** (Hygr.) **fasciatus** Fr.

N.E.—Scarborough. Damp places in pastures near firs.

S.W.—Shipley Glen ('Nat.', Sep. 1891).

MELANOSPORÆ.

AGARICUS L.

629. **Agaricus augustus** Fr.

N.E.—Scarborough. Abundant in a pine wood in the autumn of 1880. Rievaulx (F.F., 1903, 'Nat.', Nov.).

S.E.—Pocklington (F.F., 1893).

S.W.—Cullingworth.

MID W.—Bolton Woods (Fl. Skipt.). Edible.

630. **Agaricus elvensis** B. & Br.

N.E.—Castle Howard (F.F., 1892), in abundance.

S.W.—Owston (F.F., 1899). Edible, and considered superior to the common mushroom *Ag. campestris*.

631. **Agaricus arvensis** Schæff. Horse Mushroom.

Common and generally distributed. Occasionally attains a diameter across the pileus of 18 to 20 inches. Edible.

632. **Agaricus cretaceus** Fr.

S.W.—Roche Abbey Valley (Lees' Fl.).

MID W.—Adel; Wetherby (Lees' Fl.).

S.E.—Beverley (J. J. Marshall).

633. **Agaricus campestris** L. Mushroom.

S.W.—Halifax (Bolton Tab. 45). Mirfield ('Nat.', Nov. 1876), etc., etc. In pastures; distribution general.

Var. **silvicola** Vitt.

N.E.—Castle Howard (F.F., 1892). Scarborough. Rievaulx (F.F., 1903, 'Nat.', Nov.).

S.E.—Everingham (F.F., 1893). Blackwood, Selby (F.F., 1896).

S.W.—Stainborough (F.F., 1897). In open wood. On soil heap, Skircoat Moorside (Fl. Hx.).

Var. **pratensis** Vitt.

S.W.—Hebden Bridge (Fl. Hx.).

MID W.—Selby (F.F., 1896).

Var. **hortensis** Cke.

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

S.W.—Huddersfield (Hud. Bot. Soc.). Hugsett (F.F., 1897). The form cultivated in England.

Var. **rufescens** Berk.

S.W.—Whitgift, near Goole.

Var. **villaticus** Brond.

N.E.—Codbeck, Topcliffe, 1903 (H. Fisher).

634. **Agaricus silvaticus** Schæff. Edible.

S.W.—Nab Wood, Saltaire, 1880, abundant (Lees' Fl.). Edlington (F.F., 1891). Sutton (F.F., 1899). Pecket Wood, Hebden Bridge (Fl. Hx.). Wharncliffe (* 'Nat.', Oct. 1903).

N.E.—Scarborough. Castle Howard (F.F., 1892). Helmsley (F.F., 1903, 'Nat.', Nov.).

S.E.—Boynton (W.W.S.). North Cave, 1903 (A. R. Warnes). Skipwith.

Mid W.—Skipton Woods (Fl. Skipt.). Grassington.

635. **Agaricus hæmorrhoidarius** Kalchb.

N.E.—Abundant in a pine wood in Seamer Carr, 1875 (G.M.). Robin Hood's Bay. Mulgrave Woods (F.F., 1900).

S.W.—Edlington Woods (F.F., 1891). Goitstock. Sprotborough Park (1901).

Mid W.—Harewood (F.F., 1898).

N.W.—Masham ('Nat.', Jan. 1902). In fields.

636. **Agaricus comptulus** Fr.

N.E.—Scarborough. Egton Bridge (F.F., 1902).

Mid W.—Harewood (F.F., 1898).

637. **Agaricus sagatus** Fr.

S.W.—Potridings Wood and Sprotborough (F.F., 1901).

PILOSACE Fr.

638. **Pilosace algeriensis** Fr.

N.E.—Scarborough (Cooke's Illustr., pl. 618). The Scarboro' specimens were the first European examples of this species which was founded on specimens from Algeria.

STROPHARIA Fr.

639. **Stropharia æruginosa** (Curt.).

S.W.—Halifax, 1788 (Bolton, Tabs. 30 and 143). Common. Distribution general. Records numerous. Frequents moist shaded places in woods and field corners, occasionally found on lawns, in shrubberies, window plant-boxes, and in town stable yards. Its most perfect state is reached in moist woods in wet weather.

640. **Stropharia squamulosa** Massee (=*S. æruginosa*; var. *squamulosa* Mass.).

Mid W.—Ripon 1895 (W. Pratt).

Superficially like *S. æruginosa*, but dry and silky, innately squamulose, and brown gills (Eur. Fung. Fl. Agar, p. 209).

641. **Stropharia albocyanea** (Desm.).

S.W.—Huddersfield (Hud. Bot. Soc.). Fixby, Elland, Stainland, and Luddenden Dean, Hx. Hebden Bridge (Fl. Hx.). Goitstock. Ravensthorpe (H. Parkinson). Wakefield (Nat. Soc., 1903). In fields; not common.

Mid W.—Baildon (Lees' Fl.). Bolton Woods (Fl. Skipt.). Grassington (Exc. 1900).

N.E.—Scarborough. Mulgrave Woods (F.F., 1900). Egton Bridge (F.F., 1902). Rievaulx (F.F., 1903).

S.E.—Hessle and Hornsea (Hull S. & F. N. C.).

642. **Stropharia inuncta** Fr.

N.E.—Scarborough. Welham Park (F.F., 1892).

Mid W.—Common near Ilkley, 1886 (Lees' Fl.).

S.W.—Elland and Lightcliffe (Fl. Hx.). Huddersfield (F.F., 1895). Hugsett (F.F., 1897). In rich pastures.

643. **Stropharia coronilla** (Berk.).

N.E.—Scarborough. On the ground. Smell somewhat like radishes.

S.W.—Ingham Park, Mirfield, 1903 (A. Clarke).

644. **Stropharia ventricosa** Mass. [*Agaricus* (*Stropharia*) *merdaria* Fr.; var. *major*].

N.E.—On the ground, Scarborough (Cooke's Illustr., pl. 1188).

Mid W.—In tufts among grass. Bolton Woods (Fl. Skipt.).

645. **Stropharia melasperma** (Bull.).

S.E.—Pocklington (* 'Nat.', Aug. 1885).

646. **Stropharia squamosa** Fr.

MID W.—Beckwithshaw (F.F., 1881). Ryther (Lees' Fl.). Harewood (F.F., 1888).

N.E.—Scarborough.

S.W.—Nab Wood, Saltaire; Hatfield Woodhouse (Lees' Fl. Add.). Coxley Valley ('Nat.', Sep. 1891). Northdean Wood (Fl. Hx.). Eller Carr and Goitstock (Fl. Skipt.).

S.E.—Skipwith (F.F., 1884). Blackwood, Selby (F.F., 1896).

On the ground in woods. Frequent.

Var. **thrausta** Kalchb.

N.E.—Scarborough. Bramham (F.F., 1888).

S.E.—Hull Reservation (Hull S. & F. N. C.).

647. **Stropharia Worthingtoni** Fr.

S.W.—Edlington Woods (F.F., 1891).

648. **Stropharia merdaria** Fr.

N.E.—Malton. Scarborough.

S.W.—Skircoat, on road scraping tip; Lightcliffe; Luddenden Dean. Erringden and Hebden Bridge, on old horse dung (Fl. Hx.).

N.W.—Masham ('Nat.', Jan. 1902). Sedbergh (Exc. 1902).

649. **Stropharia stercoraria** Fr.

Common on dung in pastures, though not so frequent as the next species. Distribution general.

650. **Stropharia semiglobata** (Batsch).

S.W.—Mirfield ('Nat.', Nov. 1876), etc., etc.

Common on dung in pastures, etc., everywhere, most of the year.

651. **Stropharia spintriger** Fr.

S.W.—Among grass near dead beech. Goitstock.

652. **Stropharia hypsipoda** Fr.

N.E.—Scarborough (Grev. xiv., p. 38). Moist places among grass.

HYPHOLOMA Fr.

653. **Hypholoma sublateritium** (Schæff.).

S.E.—Skipwith ('Nat.', Dec. 1878), etc., etc.

Common, though not quite so frequent as *H. fasciculare*. When quickly grown on stumps in moist, shaded places, the pileus often bears one to three irregularly concentric rings of yellowish, superficial, pointed scales.

654. **Hypholoma capnoides** Fr.

Mid W.—Bramham (F.F., 1888).

S.W.—Edlington (F.F., 1891). Cullingworth.

N.E.—Scarborough. Claughton ('Nat.', Jan. 1892). Rievaulx (F.F., 1903, 'Nat.', Nov.).

On the ground in pine woods and on decaying pine trunks.

655. **Hypholoma epixanthum** Fr.

S.W.—Huddersfield (Hud. Bot. Soc.). On fir stump, Heaton (Lees' Fl.). Hebden Bridge ('Nat., Sep. 1892).

S.E.—Allerthorpe (F.F., 1893). Escrick.

N.E.—Scarborough. Arncliffe Woods (F.F., 1894).

656. **Hypholoma fasciculare** (Huds.).

S.W.—Halifax (Bolton, Tab. 29).

On and about rotting tree stumps, trunks, posts, etc., in dense clusters everywhere, and nearly all the year round; occasionally among timber in woodyards.

657. **Hypholoma elæodes** (Bull.).

N.E.—Scarborough. Castle Howard (F.F., 1892). Mulgrave (F.F., 1894). Limber Wood (F.F., 1902).

S.W.—Northdean Wood; Luddenden Dean; and Hebden Bridge (Fl. Hx.). Hugsett (F.F., 1897). Cadeby (F.F., 1901).

S.E.—Escrick (F.F., 1896).

On trunks, and on the ground. Smell sour.

658. **Hypholoma dispersum** Fr.

N.E.—Scarborough.

Mid W.—Adel Dam Wood (Lees' Fl.).

659. **Hypholoma incomptum** Mass.

N.E.—Scarborough. Described from specimens found in Raincliff Wood, near the Scarborough racecourse.

S.W.—Goitstock (Fl. Skipt.). On stumps.

660. **Hypholoma lacrymabundum** (Bull. *non* Fries).

Not uncommon among grass on moist banks, etc., and often recorded under *H. velutinum*. Has also been found in a warehouse yard, Hx. (Fl. Hx.).

A considerable amount of confusion exists in this country respecting the present fungus, which of late years has passed as *Hypholoma velutinum*. It is, however, correctly called *Agaricus lacrymabundus* Bull. by Berkeley.

The following shows how the confusion arose. The fungus was first of all called *Ag. lacrymabundus* by Bulliard, and excellently figured on pl. 194, Hist. des Champgn., Paris, 1791. At a later date Persoon renamed the same fungus *Ag. velutinus*, preferring as a specific name the character presented by the pileus to that chosen by Bulliard from the weeping gills, Persoon quotes Bulliard's figure. Sowerby followed with an excellent figure (Tab. 41) and uses Persoon's name, and also quotes Bulliard's figure. Finally, Fries retains Persoon's name of *velutinus* for Bulliard's *lacrymabundus*.

661. **Hypholoma cotoneum** Quelet.

N.E.—Raincliff Wood, Scarborough.

S.W.—Huddersfield (F.F., 1895). Goitstock. Elland Park Wood, Hx., on decaying stump (Fl. Hx.).

Fries having adopted the name *velutinus* for Bulliard's *lacrymabundus* considered the last specific name free, and used it for a totally different species of *Hypholoma*, which is beautifully figured in Fries' Icones, Tab. 134. The fact that the same fungus had been previously called *Ag.* (*Hypholoma*) *cotoneus* by Quelet had been overlooked by Fries. The same fungus is figured as *Ag.* (*Hypholoma*) *storea* var. *caespitosa* by Cooke (Illustr., pl. 543).

Finally, *Hypholoma hypoxanthum* Phil. & Plowright is nothing more than *H. cotoneum* Quelet, with yellow or fiery orange mycelium at the base of the stem. The two are similar in every other respect, and both grow around beech stumps. The uncertainty as to the occurrence of Oozonium, or orange mycelium in species where it is sometimes met with

is fully shown in Penzig's masterly treatise on *Oozonium* in species of *Coprinus*, etc.

662. **Hypholoma pyrotrichum** (Holmsk.).

N.E.—Scarborough. Arncliffe (F.F., 1894). Mulgrave (F.F., 1900).

S.W.—Hugsett (F.F., 1897).

N.W.—Masham ('Nat.', Jan. 1902).

Var. **egregia** Mass.

N.E.—In a fir wood, Oliver's Mount, Scarborough, 1880. This var. was founded on the Scarborough specimens.

S.W.—Goitstock (Fl. Skipt.).

N.W.—Masham.

663. **Hypholoma lanaripes** Cke.

S.W.—On soil in a conservatory at Bradford (Lees' Fl.).

664. **Hypholoma Candolleanum** Fr.

S.W.—Halifax district. "In plenty in a place of shrubs call'd Common Wood in Northowram, Sep. 1, 1794" (Bolton, unpublished drawing in Brit. Mus. Nat. Hist. coll. = *Ag. boeticus*). On fallen trees, Odsall Wood, Wibsey, 1885 (Lees' Fl.). Northdean Wood ('Nat.', Sep. 1892). Kebroyd, Hx., 1901 (A. Clarke). Hardcastle (Fl. Hx.). Edlington Woods (FF., 1891). Eller Carr, Cullingworth. Ecclesall Wood, Sheffield.

S.E.—Escrick (F.F., 1896). On stumps and the ground.

N.E.—Scarborough. Bulmer. Mulgrave (F.F., 1902).

665. **Hypholoma appendiculatum** (Bull.).

S.W.—Birkby (Hud. Bot. Soc.). Heaton; Saltaire (Lees' Fl.). Cleckheaton. Edlington Woods (F.F., 1891). Hebden Bridge and Northdean (Fl. Hx.). Huddersfield (F.F., 1895). Sutton (F.F., 1899).

S.E.—Skipwith (F.F., 1884). Everingham (F.F., 1893).

N.E.—Scarborough. Bulmer. Castle Howard (F.F., 1892). On old stumps. Not uncommon.

666. **Hypholoma catarium** Fr. [= *A. felinus* Passer, *non* Persoon].

S.W.—Fields, Denholme (Fl. Skipt.). Among grass, roadside, Wilsden (T. Hebden).

667. **Hypholoma hydrophilum** (Bull.).

S.W.—"In the wood at the top of the precipice opposite the Burks Hall, near Halifax" (Bolton, unpublished Tab. 303, =*Ag. subfuscus*, in Brit. Mus. Nat. Hist. coll., n. 843). Abundant in Bingley Woods, 1884 (Lees' Fl.). Cragg Vale, near Hx. and Hardcastle, Hebden Bridge (Fl. Hx.).

N.E.—Scarborough. At the base of trunks, on stumps, etc.

S.E.—Skipwith (F.F., 1884).

PANÆOLUS Fr.

668. **Panæolus egregius** Mass.

S.E.—Driffield (G.M., Cooke's Illustr., pl. 624).

S.W.—Cullingworth. On horse dung in fields.

669. **Panæolus leucophanes** (B. & Br.).

S.W.—Manure heap, Savile Park, Hx., 1895 (Fl. Hx.).

N.E.—Egton Bridge (F.F., 1902, 'Nat.', Nov.).

670. **Panæolus phalænarum** (Bull.).

N.E.—Scarborough. Bulmer. Castle Howard (F.F., 1892). Egton Bridge (F.F., 1902). Helmsley (F.F., 1903).

S.W.—Many places about Hebden Bridge and Hx. (Fl. Hx.). Huddersfield (F.F., 1895). Frequent in rich pastures.

S.E.—Hornsea (Hull S. & F. N. C.).

N.W.—Masham ('Nat.', Jan. 1902). Bowes (Exc. 1903).

671. **Panæolus retirugis** Fr.

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

S.W.—Fagley ('Nat.', Sep. 1891). Sutton (F.F., 1899). Luddenden Dean, and Stainland (Fl. Hx.).

N.W.—Masham ('Nat.', Jan. 1902). On dung in pastures.

672. **Panæolus sphinctrinus** Fr.

S.W.—Pontefract. Lightcliffe and Luddenden Dean, Hx. Hebden Bridge (Fl. Hx.). Cullingworth. Not common.

N.W.—Masham ('Nat.', Jan. 1902). On dung in pastures.

673. **Panæolus campanulatus** (L.).

Common on dung in pastures, etc. Distribution general.

674. **Panæolus papilionaceus** (Bull.).

Not quite so common as *P. campanulatus*, but generally distributed; habit similar.

675. **Panæolus caliginosus** Jungh.

S.E.—On shaded lawn, Hull (A. R. Warnes).

676. **Panæolus subbalteatus** (B. & Br.).

S.W.—Sheffield.

677. **Panæolus fimicola** Fr. ,,

S.W.—Halifax. "Grows among the grass in pasture grounds in Oct." (Bolton, Tab. 61., f. 1). Meltham.

N.E.—Scarborough.

Mid W.—Harewood (F.F., 1898).

S.E.—Hornsea (Exc. 1900).

N.W.—Masham ('Nat.', May 1903).

678. **Panæolus cinctulus** (Bolt.).

S.W.—Halifax. "Grows on dunghills, after rain, in June and July," 1789 (Bolton, Tab. 152). Fries' Hym. Eur., p. 312.

ANELLARIA Karst.

679. **Anellaria separata** (L.).

S.W.—Halifax. "Grows most frequently on fresh dung-hills. . . . Sometimes in pasture grounds" (Bolton, Tab. 53). Mirfield ('Nat.', Nov. 1876), etc., etc. Very common on dung in moist pastures the greater part of the year. Follows cattle wherever they graze.

680. **Anellaria scitula** Mass.

N.E.—Scarborough. Growing on soil in a plant pot. Species founded on the Scarborough specimens (Grev. xvi., p. 65; Cooke's Illustr., pl. 625 b.).

S.W.—On cow dung, Luddenden Dean (Fl. Hx.). Goitstock.

681. **Anellaria fimiputris** (Bull.).

S.W.—Halifax (Bolton, Tab. 57).

Common on dung in pastures. Distribution general.

PSILOCYBE Fr.

682. **Psilocybe sarcocephala** Fr.

N.E.—Scarborough. Mulgrave Woods (F.F., 1900). Arncliffe (F.F., 1903, 'Nat.', Nov.). Rievaulx (F.F., 1903).

S.W.—Huddersfield (F.F., 1895). Hebden Bridge. Elland Park Wood, 1902, near decaying stump; fine specimens, 4 to 5 in. across (J. Wms. Sutcliffe, Fl. Hx.).

683. **Psilocybe ericæa** (Pers.).

MID W.—Baildon Moor (Tr. Y.N.U., IX.). Wistow Common (Lees' Fl.). Askham Bog (Exc. 1900).

S.E.—Skipwith (F.F., 1884).

S.W.—Hatfield ('Nat.', Mar. 1888). Burghwallis (F.F., 1899.)

N.E.—Scarborough. Terrington (G.M.). Mulgrave (F.F., 1900). In wet, heathy pastures. Uncommon.

684. **Psilocybe subericæa** Fr.

S.W.—Luddenden Dean (Fl. Hx.).

N.W.—Masham ('Nat.', Jan. 1902).

685. **Psilocybe uda** (Pers.).

MID W.—Baildon Moor (Lees' Fl.).

N.E.—Scarborough. Castle Howard (F.F., 1892).

S.W.—Among Sphagnum in several places near Hebden Bridge. Northdean Wood, among moss and decaying hepatics (Fl. Hx.). Strines, near Sheffield.

686. **Psilocybe areolata** (Klotsch.).

S.W.—Huddersfield (Lees' Fl.).

N.E.—Scarborough.

MID W.—Harewood (F.F., 1898).

687. **Psilocybe virescens** Mass.

N.E.—Malton (G.M.). The species was established on the Malton specimens, and figured in Cooke's Illustr., pl. 1177, as *P. areolata* var. On rotten chips and stumps.

688. **Psilocybe helvola** (Schæff.).

S.W.—On the ground among grass. Cadeby (F.F., 1901).

This fungus is exactly *Agaricus helvolus* Schæff., pl. 210, and differs from all known species of *Psilocybe* in the peculiarly-shaped, warted spores. The habit is that of *P. sarcocephala*, but sufficiently distinct in the very broad, adnate gills, and the spores. First British record, 'Nat.', Jan. 1902, p. 2.

689. **Psilocybe coprophila** (Bull.).

N.E.—Scarborough. On dung heaps, and in pastures.

MID W.—Church Fenton (Lees' Fl.).

690. **Psilocybe bullacea** (Bull.).

N.E.—Scarborough.

S.W.—Heaton (Lees' Fl.). Eller Carr, near Cullingworth.

691. **Psilocybe physaloides** (Bull.).

S.W.—Nab Wood, Saltaire ('Nat.', Sep. 1891).

692. **Psilocybe semilanceata** Fr.

S.W.—Wharncliffe (* 'Nat.', Oct. 1878), etc. Liberty Cap. Common in pastures, grassy waysides, and other places.

Var. **cærulescens** Cke.

N.E.—Egton Bridge (F.F., 1902, 'Nat.', Nov.).

693. **Psilocybe spadicea** Fr.

Frequent on decaying trunks and stumps in woods. Distribution general. Recorded from all the county divisions.

Var. **hygrophila** Fr.

N.E.—Scarborough. Bulmer. Mulgrave (F.F., 1900).

Mid W.—Harewood (F.F., 1888).

S.W.—Hugsett (F.F., 1897).

Var. **polycephala** Fr.

"Grows in the shady parts of woods, on the decaying roots of fallen trees, about Halifax, in several places" (Bolton, Tab. 11).

N.E.—Arncliffe Woods (F.F., 1902, 'Nat.', Nov.).

694. **Psilocybe cernua** (Müll.).

N.E.—Scarborough. Castle Howard (F.F., 1892).

S.W.—Heptonstall. In fragile fascicles on rotten wood (Fl. Hx.).

N.W.—Masham ('Nat.', Jan. 1902).

695. **Psilocybe fœnisecii** (Pers.).

Common in fields, open woods, on lawns, etc. Distribution general. Recorded from all the county divisions.

696. **Psilocybe clivensis** (B. & Br.).

N.E.—Scarborough.

S.W.—Nut Clough, Hebden Bridge (Fl. Hx.).

PSATHYRA Fr.

697. **Psathyra elata** Mass.

N.E.—Scarborough. Among grass on hedge banks, etc.

Species established on the Scarborough specimens, figured in Cooke's Illustr., pl. 1158, as *Ag.* (*Psathyra*) *conopileus* var. *superbus*. "Considered by Cooke to be a variety of *P. conopileus* . . . but evidently a distinct species in the obtusely adnate gills and larger spores" (Mass. Brit. Fung. Fl. I., p. 353).

S.W.—Owston (F.F., 1899).

698. **Psathyra conopilea** Fr.

Mid W.—Otley (Lees' Fl. Add.).

N.E.—Scarborough. Egton Bridge (F.F., 1902, 'Nat.', Nov.). Helmsley (H. Slater, 'Nat.', Nov. 1903).

S.W.—Melton and Potridings (F.F., 1901). Goitstock.

N.W.—Masham ('Nat.', Jan. 1902).

S.E.—Hull Reservation, 1902.

Grows among grass in rich soil, gardens, etc.

699. **Psathyra mastiger** (B. & Br.).

S.W.—Saltaire (Lees' Fl.). Owston (F.F., 1899). Grassy roadside.

700. **Psathyra corrugis** (Pers.).

N.E.—Scarborough. Terrington (Bot. Rep., 1879, Tr. IV.). Castle Howard (F.F., 1892). Mulgrave Woods (F.F., 1900).

Mid W.—Baildon (Lees' Fl.).

N.W.—Masham ('Nat.', May 1903).

S.W.—Birdwell (F.F., 1897). On soil in a foundry yard, and among grass in other places about Hebden Bridge. Stainland, Elland, etc. (Fl. Hx.).

S.E.—North Cave, 1903 (A. R. Warnes). Osgodby.

In pastures and open woods.

Var. **gracilis** Bull.

N.E.—Castle Howard (F.F., 1892).

701. **Psathyra spadiceo-grisea** (Schæff.).

S.W.—Dewsbury. On the wood floor of a summer-house ('Nat.', Sep. 1891). Storthes Hall Wood (A. Clarke).

Cullingworth, at base of rotting garden-palings. Elland Park Wood, on decaying branch (Fl. Hx.). Sutton (F.F., 1899). Melton and Cadeby (F.F., 1901). Thorpe Salvin, near Sheffield. On dead wood in garden, Sheffield.

N.E.—Arncliffe (F.F., 1894). Helmsley (F.F., 1903).

N.W.—Masham ('Nat.', Jan. 1902).

S.E.—North Cave (A. R. Warnes).

702. **Psathyra obtusata** Fr.

N.E.—Mulgrave (F.F., 1894). Egton Bridge (F.F., 1902).

S.W.—Bingley Woods, 1884 (Lees' Fl.).

703. **Psathyra gyroflexa** Fr.

N.E.—Scarborough (Grev. xv., p. 41).

704. **Psathyra bifrons** (B. & Br.).

N.E.—Scarborough. On twigs and chips. Rare.

S.W.—High Greenwood, Hebden Bridge (Fl. Hx.).

705.—**Psathyra semivestita** (B. & Br.).

Frequent among grass in pastures, on waysides, etc. Distribution general. Recorded for all the county divisions.

706. **Psathyra fibrillosa** (Pers.).

N.E.—Scarborough. On the ground among decaying sticks and leaves.

S.W.—Nab Wood (Lees' Fl.). Goitstock. Elland Park Wood (Fl. Hx.).

707. **Psathyra pennata** Fr.

S.W.—Elland Park Wood and Luddenden Dean, Hx. High Greenwood, Hardcastle, and Pecket Wood, near Hebden Bridge (Fl. Hx.). Potridings Wood (F.F., 1901).

N.W.—Masham ('Nat.', Jan. 1902).

N.E—Helmsley (F.F., 1903). On rich, loose soil.

708. **Psathyra gossypina** (Bull.).

S.W.—"In 1784, specimens of this plant, in an advanced state, were brought me, growing on putrid wood, found under the sprinklings of the stream of Elm-Cragg-Well at Bell Bank, near Bingley; and I saw it at the same place, in all its states, in April 1788" (Bolton, Tab. 71, f. 1). Bingley Woods,

1884 (Lees' Fl.). In a very moist corner of Northdean Wood (Fl. Hx.).

709. **Psathyra urticæcola** (B. & Br.).

Mid W.—Harewood and East Keswick (F.F., 1898).

In nettle beds at the base of old stems.

PSATHYRELLA Fr.

710. **Psathyrella subatrata** Fr.

N.E.—Scarborough. Helmsley (F.F., 1903, 'Nat.', Nov.).

S.W.—Elland Park Wood (Fl. Hx.).

S.E.—Escrick.

711. **Psathyrella gracilis** Fr.

Common among grass on waysides, hedge banks, etc. Distribution general. Recorded for all the county divisions.

712. **Psathyrella hiascens** Fr.

S.W.—Bingley Woods ('Nat.', Sep. 1891).

N.E.—Mulgrave Woods (F.F., 1900).

713. **Psathyrella caudata** Fr.

S.W.—Eller Carr, near Cullingworth. On rotten wood.

714. **Psathyrella prona** Fr.

N.E.—Scarborough. Mulgrave Woods (F.F., 1900).

715. **Psathyrella disseminata** (Pers.).

Common on and about mossy stumps. Grows in crowds. Distribution general. Records many.

716. **Psathyrella atomata** Fr.

Common among grass in open woods, on waysides, etc. Distribution general. Records many.

717. **Psathyrella crenata** (Lasch.).

N.E.—Bulmer. Scarborough (Cooke's Illustr., pl. 847).

S.W.—Goitstock.

Mid W.—Bolton Woods (Fl. Skipt.).

COPRINUS Pers.

718. **Coprinus comatus** Fr.

S.W.—Halifax. (Bolton, Tab. 44).

Common near towns and villages, on lawns, grassy waysides, old gardens, refuse tips, etc. Rarely in pastures or

meadows. A fine edible species which cannot well be mistaken for any other; is becoming widely known as an esculent agaric.

719. **Coprinus ovatus** (Schæff.).

S.W.—Frizinghall, Bradford. Huddersfield (F.F., 1895). Hebden Bridge. Skircoat, Hx. (Fl. Hx.).

N.E.—Scarborough. Mulgrave Woods (F.F., 1900). Helmsley (F.F., 1903, 'Nat.', Nov.).

In pastures. Edible.

720. **Coprinus sterquilinus** Fr.

N.E.—Scarborough. Bulmer.

S.W.—Hebden Bridge, in foundry yard on sand and manure. Southowram, and Luddenden Dean, on dung heaps (Fl. Hx.). Cullingworth (Fl. Skipt.).

721. **Coprinus oblectus** (Bolton).

S.W.—"Grows on new dunghills, but is rare, about Halifax," 1790 (Bolton, Tab. 142=*Ag. oblectus*). Not again met with here to be recognised until Oct. 1892, when it was found growing on street sweepings' tip ('Nat.', Dec. 1892). Has since been found at Hebden Bridge; Rishworth; and in Luddenden Dean, on manure heaps (Fl. Hx.).

722. **Coprinus atramentarius** Fr.

S.W.—Halifax (Bolton Tab. 25).

Common about old stumps, and among grass on waysides, etc., but not on dung. Distribution general. Recorded for all the county divisions. Edible.

723. **Coprinus soboliferus** Fr.

S.W.—Hugsett (F.F., 1897). Owston (F.F., 1899).

724. **Coprinus fuscescens** Fr.

S.W.—Heaton, Bradford ('Nat.', May 1881).

N.E.—Mulgrave Woods (F.F., 1900).

725. **Coprinus picaceus** (Bull.).

N.E.—Scarborough. On the ground.

726. **Coprinus aphthosus** Fr.

S.W.—Halifax. "Grows on decaying pieces of moist wood in cellars, cold kitchens, etc., in plenty" (Bolton, Tab. 26).

727. **Coprinus flocculosus** Fr.

S.E.—Everingham (F.F., 1893).

S.W.—Luddenden Dean, on rotting wood (Fl. Hx.). Eller Carr, Cullingworth.

728. **Coprinus similis** (B. & Br.).

S.W.—Norland, Hx. Growing from beneath a dead trunk laid in a moist, shady place ('Nat.', Sep. 1892).

729. **Coprinus extinctorius** (L.).

S.W.—"Grows among sand, in moist and shady situations about Halifax, but is rare there" (Bolton, Tab. 24).

Mid W.—Horton-in-Ribblesdale ('Nat.', May 1881).

730. **Coprinus fimetarius** (L.).

S.W.—Bradford; Heaton (Lees' Fl.). Ovenden, Hx. ('Nat.', Sep. 1892). On dung and soil heap, Skircoat, Hx. Sowerby Bridge (Fl. Hx.).

Mid W.—Esholt (Lees' Fl.).

Var. **pullatus**.

S.W.—Halifax. "Grows in the space of a night, and falls and dissolves the following day . . . on dunghills, or in fat meadows" (Bolton, Tab. 20 = *Ag. pullatus*).

Var. **cinereus** Schæff.

S.W.—On rotten sacking, in damp field-corner, Luddenden Dean (Fl. Hx.).

Var. **macrorhizus** Pers.

S.W.—Huddersfield, in greenhouse (F. Crosland).

731. **Coprinus tomentosus** (Bull.).

S.W.—"Ogden Kirk [near Hx.] among wet moss, in the ground where peat is dug for fuel" (Bolton, Tab. 156). Heaton (Lees' Fl.). Southowram (Fl. Hx.).

732. **Coprinus niveus** Fr.

S.W.—"I gathered specimens of it in July, on a heap of horse dung at Lea Bridge, near Halifax, 1792" (Bolton, unpublished Tab. 205, in Brit. Mus. Nat. Hist. coll., n. 936, *Ag. stercorarius*). Common on horse dung, and occasionally on rich, loose soil in moist, shaded places. Distribution general. Recorded for all the county divisions.

733. **Coprinus micaceus** (Bull.).

S.W.—Halifax (Bolton Tab. 54).

Mid W.—Hawkesworth ('Nat.', May 1881), etc., etc.

Very common on and about old stumps. Has a beautiful golden-brown mycelium. Distribution general.

734. **Coprinus aratus** (B. & Br.).

Mid W.—Langstrothdale.

735. **Coprinus radians** (Desm.).

N.E.—Scarborough. On damp, plastered walls.

736. **Coprinus deliquescens** (Bull.).

N.E.—Scarborough. Bulmer. Castle Howard (F.F., 1892),

737. **Coprinus Hendersonii** Berk.

S.W.—Bradford. On mushroom bed ('Nat.', Sept. 1891). On cow dung, Luddenden Dean, Hx., 1892 (Fl. Hx.).

738. **Coprinus Bresadolæ** Schulz.

N.E.—Egton Bridge (F.F., 1902). On the ground among rotten branches in a wood.

First British record ('Nat.', Nov. 1902).

739. **Coprinus volvaceo-minimus** Crossl.

S.W.—Wellhead, Hx. On decaying straw on dunghill. Differs from *C. Hendersonii* in distinct volva and sub-globose spores. *C. bulbillosus* differs in absence of a marginate volva.

First record ('Nat.', Dec. 1892).

740. **Coprinus lagopus** Fr.

S.W.—Saltaire (Lees' Fl.). Edlington Woods (F.F., 1891). Cadeby (F.F., 1901). Midgehole, Hebden Bridge (Fl. Hx.).

N.E.—Scarborough. Arncliffe (F.F., 1894). Mulgrave (F.F., 1900). Helmsley (F.F., 1903, 'Nat.', Nov.).

S.E.—Escrick (F.F., 1896).

Mid W.—East Keswick (F.F., 1898). On dung and soil.

741. **Coprinus narcoticus** Fr.

S.W.—Dudwell, Skircoat, Hx. (Fl. Hx.).

742. **Coprinus radiatus** (Bolton).

S.W.—Halifax (Bolton, Tab. 39, f.C.).

Very common on horse dung in fields and open woods.

743. **Coprinus Gibbsii** Mass. & Crossl.

S.W.—Sheffield, on horse dung, Nov. 1901. Probably the smallest agaric known. Remarkable for its circular, compressed spores.

First record ('Nat.', Jan. 1902).

N.E.—On sheep dung. Helmsley ('Nat.', April 1904).

744. **Coprinus domesticus** Pers.

N.E.—Scarborough. On moist, rotten wood, carpets, etc.

S.W.—North Dean Wood, on old carpet (Fl. Hx.). Ecclesall Wood, Sheffield, on burnt ground.

745. **Coprinus stercorarius** (Bull.).

N.E.—Scarborough. On dung, manured ground, etc.

S.W.—Heptonstall and other places near Hebden Bridge (Fl. Hx.). Goitstock. Campsall (F.F., 1899).

746. **Coprinus aquatiles** Peck.

S.W.—High Lee Clough, Norland, near Halifax. On decaying vegetation in rushy-mossy swamp. First British record, 'Nat.', Jan. 1904.

747. **Coprinus velox** Godey.

S.W.—Sheffield. On horse dung. First British record, 'Nat.', April 1902.

748. **Coprinus ephemerus** Fr.

Mid W.—Beckwithshaw, and Studley Royal (F.F., 1881), etc., etc. Frequent on dunghills and manured ground. Recorded for all the county divisions.

749. **Coprinus sociatus** Fr.

N.E.—Mulgrave Woods (F.F., 1900).

S.W.—Melton and Cadeby (F.F., 1901). On moist, loose soil.

750. **Coprinus plicatilis** (Curt.).

Mid W.—Studley Royal (F.F., 1881), etc., etc.

Very common. Distribution general. Among grass in pastures, on lawns, road-sides, waste places, etc.

751. **Coprinus hemerobius** Fr.

S.W.—"Grows in meadows where the soil is rich, in Sep. and Oct., about Halifax, plentifully" (Bolton, Tab. 31).

Mid W.—Hawkesworth ('Nat.', Feb. 1886). Esholt (Lees' Fl.). East Keswick and Harewood (F.F., 1898).
S.E.—Escrick (F.F., 1896). Hessle (Hull S. & F. N. C.).
N.E.—Mulgrave (F.F., 1900). Egton Bridge (F.F., 1902).

GOMPHIDIUS Fr.

752. **Gomphidius glutinosus** (Schæff.).
Mid W.—Adel (Lees' Fl.). Stainer Wood (F.F., 1896).
N.E.—Scarborough. Bridlington (G.M.).
S.E.—Boynton (W.W.S.). In fir woods.

753. **Gomphidius roseus** Fr.
S.E.—In wood, Skipwith (F.F., 1896).

754. **Gomphidius viscidus** (L.).
Mid W.—Bishop's Wood (Lees' Fl.). Langstrothdale.
N.E.—Scarborough. Egton (1894).
S.W.—Cadeby (F.F., 1901).
S.E.—Skipwith (F.F., 1884).

755. **Gomphidius maculatus** (Scop.).
[*G. stillatus*, Straus, in Sturm. fasc. 33, t. 2].
N.E.—Scarborough. Bulmer. Helmsley ('Nat.', Sep. 1884).
A doubtful British species, *vide* Brit. Fung. Fl. I., p. 348.

756. **Gomphidius gracilis** Berk.
N.E.—Scarborough (Cooke's Illustr., pl. 883). Egton Bridge (F.F., 1902, 'Nat.', Nov.). Helmsley (H. Slater).
S.E.—Everingham (F.F., 1893).
Mid W.—Bishop's Wood (F.F., 1896). Grassington.
S.W.—Goitstock. Hebden Bridge (Fl. Hx. Add.).

PAXILLEÆ.

PAXILLUS Fr.

757. **Paxillus lepista** Fr.
N.E.—Scarborough (Cooke's Illustr., pl. 872). Pickering. Rievaulx (F.F., 1904).
S.W.—Huddersfield (F.F., 1895). Goitstock (Fl. Skipt.).

758. **Paxillus orcelloides** Cke. & Mass.
S.E.—Escrick (F.F., 1896).

759. **Paxillus paradoxus** (Kalch.).

N.E.—On the ground, Scarboro' (Cooke's Illustr., pl. 884). These specimens formed the first British record. Egton Bridge (F.F., 1902).

S.W.—Huddersfield. Hebden Bridge (Fl. Hx.).

760. **Paxillus involutus** (Batsch).

S.W.—Halifax, 1788 (Bolton, Tab. 55).

Common on the ground in woods. Distribution general.

761. **Paxillus leptopus** Fr.

Mid W.—Harewood (F.F., 1888).

762. **Paxillus atrotomentosus** (Batsch).

N.E.—Pickering. On pine trunks and the ground (G.M.).

763. **Paxillus crassus** Fr.

S.W.—Edlington Woods (F.F., 1891).

764. **Paxillus panuoides** Fr.

S.W.—Hardcastle, Hebden Bridge, 1893 (Fl. Hx.).

S.E.—Everingham (F.F., '93). Blackwood ('84). Escrick [('96).

Mid W.—Bolton Woods (Fl. Skipt.).

N.W.—Masham. On dead stump ('Nat.', Jan. 1902).

HYGROPHORUS Fr.

All the species are terrestrial in woods or pastures.

765. **Hygrophorus** (Limacium) **chrysodon** (Batsch).

S.W.—Edlington Woods (F.F., 1891). Maltby Wood (T. Gibbs).

N.E.—Mulgrave Woods (F.F., 1900).

766. **Hygrophorus** (Lima.) **eburneus** (Bull.).

S.W.—"Gathered under the elm trees near Stannary Lane Hx., Sep., 1787" (Bolton, Tab. 4, f. 2). Greetland and Warley (Fl. Hx.). Edlington (F.F., 1891). Goitstock.

Mid W.—Bramham (F.F., 1888).

N.E.—Scarboro'. Mulgrave(F.F.,'02). Rievaulx(F.F.,'03).

767. **Hygrophorus** (Lima.) **cossus** (Sow.).

Mid W.—Studley Royal (F.F., '81). Bramham (F.F., '88).

N.E.—Scarboro'. Mulgrave Woods (F.F., '94).

S.W.—Edlington (F.F., '91). Saltaire ('Nat.,' Sept. '91).

768. **Hygrophorus** (Lima.) **pudorinus** Fr.

S.W.—North Dean, Hx. ('Nat.', Sep. '92). Hebden Bridge (Fl. Hx.).

769. **Hygrophorus** (Lima) **glutinifer** Fr.

N.E.—Rievaulx (F.F., 1903, 'Nat.', Nov.).

770. **Hygrophorus** (Lima.) **melizeus** Fr.

N.E.—Among grass. Rievaulx Abbey (F.F., 1903). First British record ('Nat.', Jan. 1904, figs. 5-7, plate 1).

771. **Hygrophorus** (Lima.) **discoideus** (Pers.).

S.W.—Among grass. Goitstock (Fl. Skipt.)

772. **Hygrophorus** (Lima.) **olivaceo-albus** Fr.

N.E.—Scarboro'. In woods and woodland pastures.

773. **Hygrophorus** (Lima.) **hypothejus** Fr.

Mid W.—Beckwithshaw (F.F.,'81). Harewood (F.F.,'88).

S.E.—Blackwood (F.F., 1884). In fir woods.

N.E.—Scarboro'. Cloughton ('Nat.', Jan. '92). Egton, '94.

S.W.—Hebden Bridge, 1893 (Fl. Hx.).

774. **Hygrophorus** (Camarophyllus) **pratensis** (Pers.).

S.W.—"Grows in dry and barren pastures about Halifax" (Bolton, Tab. 56). Common in pastures during autumn. Distribution general. Edible.

Var. **cinereus** Fr.

S.W.—Hebden Bridge (Fl. Hx.). Wooldale (C. H. Broadhead).

N.W.—Masham ('Nat.', Jan. 1902). In woodside pasture.

S.E.—North Cave, 1903 (A. R. Warnes).

775. **Hygrophorus** (Camar.) **bicolor** Karst.

N.E.—Egton Bridge (F.F., 1902). In pasture.

776. **Hygrophorus** (Camar.) **virgineus** (Wulf.).

Common in pastures. Distribution general. Edible.

777. **Hygrophorus** (Camar.) **niveus** (Scop.).

Common in pastures. Distribution general. Edible.

778. **Hygrophorus** (Camar.) **russo-coriaceus** (B. & [Br.).

N.E.—Scarboro'. In pastures.

S.E.—Boynton (W.W.S.).

779. **Hygrophorus** (Camar.) **ventricosus** (B. & Br.)
S.W.—Cullingworth. In pasture.

780. **Hygrophorus** (Camar.) **fornicatus** Fr.
N.E.—Scarboro'. In pasture among grass and moss.
Mid W.—Studley Royal (F.F., 1881). Malham Moor (W. D. Roebuck).

781. **Hygrophorus** (Camar.) **distans** (Berk.).
S.W.—Roche Abbey; Shipley Glen. In woods. (Lees' Fl.).
N.E.—Scarboro'.

782. **Hygrophorus** (Camar.) **Clarkii** (B. & Br.).
N.E.—Scarboro'. In woods. Castle Howard (F.F., 1892). Mulgrave Woods (F.F., 1900).
Mid W.—Harewood (F.F.,'88). Bolton Abbey (Fl. Skipt.).
S.W.—Fixby, Norland and Luddenden Dean (Fl. Hx.). In woodside pastures. Bingley (Fl. Skipt.).

783.—**Hygrophorus** (Camar.) **metapodius** Fr.
S.W.—Cullingworth. In poor mossy pasture.

784. **Hygrophorus** (Camar.) **ovinus** (Bull).
N.E.—Scarboro'. In mossy pasture. Mulgrave (F.F., '01).
Mid W.—Hawkesworth. Grassington (Exc. 1900).
S.W.—Bradford (H.T.S.). Hebden Bridge, etc. (Fl. Hx.).

785. **Hygrophorus** (Hygrocybe) **Colemannianus** (Blox.).
N.E.—Castle Howard (F.F., '92). In pasture.
S.W.—Hebden Bridge, etc. (Fl. Hx.). Stainboro' (F.F.,'97).
S.E.—Hessle and Hornsea (Hull S. & F.N.C.).

786. **Hygrophorus** (Hygro.) **sciophanus** Fr.
N.E.—Helmsley (F.F., 1903).

787. **Hygrophorus** (Hygro.) **laetus** Fr.
Frequent in pastures. Distribution general.

788. **Hygrophorus** (Hygro.) **vitellinus** Fr.
N.E.—Scarboro'. Egton Bridge (F.F., 1902).
S.W.—Huddersfield (F.F., 1895). Goitstock.

789. **Hygrophorus** (Hygro.) **ceraceus** (Wulf.).
Frequent in pastures. Distribution general.

790. **Hygrophorus** (Hygro.) **coccineus** (Schæff.).
Common in pastures and other open places among grass and moss. Distribution general.

791. **Hygrophorus** (Hygro.) **miniatus** Fr.
Frequent on moist heathy banks. Distribution general.

792. **Hygrophorus** (Hygro.) **turundus** Fr.
S.W.—Colne Bridge Woods, Huddersfield (F.F., 1895).
N.E.—Arncliffe Woods (F.F., 1902).

793. **Hygrophorus** (Hygro.) **micaceus** (B. & Br.).
N.E.—Mulgrave Woods (F.F., 1900).

794. **Hygrophorus** (Hygro.) **Wynniæ** (B. & Br.).
N.E.—Scarboro'. Among twigs, etc.
S.E.—Boynton (W.W.S.).

795. **Hygrophorus** (Hygro.) **puniceus** Fr.
S.W.—Fixby, 1787 (Bolton, Tab. 43), Hx. (Tab. 67, f. 2)
Common in mossy pastures, and occasionally in woods. Distribution general.

796. **Hygrophorus** (Hygro.) **obrusseus** Fr.
S.W.—"Grows on dry banks and in barren pastures about Hx., 1788" (Bolton, Tab. 68).
Common. Distribution general.

797. **Hygrophorus** (Hygro.) **intermedius** Pass.
S.W.—In pasture, Lightcliffe, 1892 (Fl. Hx.).

798. **Hygrophorus** (Hygro.) **conicus** (Scop.).
Common in pastures. Distribution general.

799. **Hygrophorus** (Hygro.) **calyptræformis** Berk.
Mid W.—Harewood (F.F., '88). Barden (Fl. Skipt.).
N.E.—Scarboro'. Egton Bridge (F.F., '02). Helmsley and Rievaulx (F.F., '03).
N.W.—Burn Valley, near Masham.
S.W.—Wadsworth (Fl. Hx.).
In heathy pastures. Edible.

800. **Hygrophorus** (Hygro.) **chlorophanus** Fr.
Common in pastures. Distribution general.

801. **Hygrophorus** (Hygro.) **psittacinus** (Schæff.).

Very common in pastures and other grassy places. Distribution general.

802. **Hygrophorus** (Hygro.) **unguinosus** Fr.

Mid W.—Meanwood (Tr. Y.N.U., ix). Studley Royal (F.F., '81). Harewood (F.F., '88).

S.W.—Norland ('Nat.', Sept. '92). Hebden Bridge, etc. (Fl. Hx.). Goitstock. Huddersfield (F.F., 1895).

S.E.—Escrick (F.F., 1896). In woodside pastures.

N.E.—Mulgrave Woods (F.F., '94). Egton Bridge (F.F., '02). Rievaulx (F.F., '03).

803. **Hygrophorus** (Hygro.) **nitratus** (Pers.).

(*H. murinaceus* Fr.).

S.W.—Hx. (Nat., Sep. 1892). Hebden Bridge (Fl. Hx.). Anston, Ecclesall (T. Gibbs).

Mid W.—Baildon, in pasture (Lees' Fl.).

N.E.—Egton Bridge (F.F., '02). Helmsley (F.F., '03).

S.E.—Hornsea (Hull S. & F.N.C.). Riccall.

LACTARIEÆ.

LACTARIUS Fr.

804. **Lactarius** (Piper.) **torminosus** (Schæff.).

S.W.—"In wood called Elland Park, near Halifax, Sep. 1794" (Bolton, unpublished Tab. 217, in Brit. Mus. Nat. Hist. coll., n. 1247). Elland, and Hebden Bridge (Fl. Hx.). Edlington (F.F., '91). Melton (F.F., '01). Maltby Wood (T. Gibbs).

N.E.—Scarboro' (Tr. iv.). Mulgrave (F.F., '94).

Mid W.—Beckwithshaw ('81). Grassington (Exc., 1900).

S.E.—Blackwood (F.F., '96).

N.W.—Masham ('Nat.', Jan. '02). In heathy pasture.

805. **Lactarius** (Piper.) **cilicioides** Fr.

S.E.—Skipwith ('Nat.', Dec. '78).

N.E.—Scarboro' (Tr. Y.N.U., iv.).

806. **Lactarius** (Piper.) **intermedius** Kromb.

S.W.—Goitstock (Fl. Skipt.).

807. **Lactarius** (Piper.) **turpis** (Weinm.).
Common on heavy soil in mixed woods. Poisonous.

808. **Lactarius** (Piper.) **controversus** Pers.
Mid W.—Hawkesworth (Lees' Fl.).

809. **Lactarius** (Piper.) **pubescéns** Fr.
N.E.—Scarboro'. In grassy places.
S.W.—Goitstock (Fl. Skipt.). Hebden Bridge (Fl. Hx.).

810. **Lactarius** (Piper.) **aspideus** Fr.
N.E.—Scarboro'. These specimens formed the first British record. (Cooke's Illustr. pl. 1083).
Mid W.—Harewood (F.F., '88). (Grev. xvii., 39).

811. **Lactarius** (Piper.) **insulsus** Fr.
N.E.—Scarboro'. Castle Howard; Welham Park ('92).
S.W.—Huddersfield (H.B.S.). Roche Abbey Valley (Lees' Fl.). Luddenden, Hx.('Nat.', Sep. '92). Edlington (F.F., '91). Goitstock. In pastures.
S.E.—Escrick (F.F., '96).

812. **Lactarius** (Piper.) **blennius** Fr.
Common on the borders of fields near woods, and among grass in woods. Distribution general. Poisonous.

813. **Lactarius** (Piper.) **hysginus** Fr.
S.W.—Bingley (Tr. Y.N.U., iv.). Hebden Bridge (Fl. Hx.).

814. **Lactarius** (Piper.) **trivialis** Fr.
N.E.—Scarboro'. In pine woods.
S.E.—Selby (F.F., '84).
S.W.—Heaton (Lees' Fl.). Ovenden ('Nat.', Sep. '92). Fixby and Hebden Bridge (Fl. Hx.).
Mid W.—Bishop's Wood, Selby (F.F., '96).

815. **Lactarius** (Piper.) **circellatus** Fr.
S.W.—Saltaire ('Nat.', June '81). Huddersfield (F.F., '95).
S.E.—Blackwood, Selby (F.F., '96).

816. **Lactarius** (Piper.) **uvidus** Fr.
Mid W.—Beckwithshaw (F.F., '81). Bramham (F.F., '88). Grassington (Exc. 1900). In woods.
S.W.—Edlington (F.F., '91).

817. **Lactarius** (Piper.) **flexuosus** Fr.

Mid W.—Harewood (F.F., '88).

S.W.—Bingley. Goitstock. Hebden Bridge (Fl. Hx.).

818. **Lactarius** (Piper.) **pyrogalus** (Bull.).

Frequent in woods. Distribution general. Poisonous.

819. **Lactarius** (Piper.) **squalidus** Kromb.

S.W.—Ovenden. Halifax ('Nat.', Dec. '90); Cooke's Illustr. pl. 1004 A). Among moss in open beech wood.

820. **Lactarius** (Piper.) **chrysorrheus** Fr.

(Ag. *zonarius*, Schæff.).

S.W.—Woodhouse Wood, Halifax, 1790 (Bolton, Tab. 144). Pecket Wood, Hebden Bridge (Fl. Hx.). Edlington (F.F., '91).

N.E.—Scarboro'. Arncliffe (F.F., '94). Rievaulx (F.F., '03).

Mid W.—Beckwithshaw (F.F., '81). Langstrothdale. Bolton Woods (Fl. Skipt.).

S.E.—Blackwood, Selby (F.F., '84 and '96).

821. **Lactarius** (Piper.) **acris** (Bolton).

S.W.—Woodhouse Wood, Halifax, 1788 (Bolton. Tab. 60). Goitstock (Fl. Skipt.).

Mid W.—Ingleton (Lees' Fl.).

822. **Lactarius** (Piper.) **glaucescens** Crossl.

S.W.—On the ground in Wade Wood, Luddenden Dean, and North Dean Wood, Hx. ('Nat.', Jan. 1900, pp. 5-6, figs. 1-3).

823. **Lactarius** (Piper.) **pergamenus** Fr.

S.W.—Maltby Wood (T. Gibbs).

N.E.—Arncliffe Woods (F.F., '02). Helmsley (F.F., '03).

824. **Lactarius** (Piper.) **piperatus** (Scop.).

Mid W.—"The earliest noticed West Riding Fungus recorded in 1677 by Ray, in *Cat. Plant. Angl.* ed. ii., as found by one Martin Lister, in Morton Woods, under Pinno Moor, Craven. Well described by Dr. Lister in a letter to Ray, Oct. 12th, 1672, in Derham's Letters" (Lees' Fl.). Bolton Woods (Lees' Fl.).

S.W.—"In woods about Halifax" (Bolton, Tab. 21). Pecket Wood, Callis Wood, etc., near Hebden Bridge. Roche Abbey Valley (Lees' Fl.). Goitstock (Fl. Skipt.).

N.E.—Castle Howard (Tr. iv.). Thirsk ('Nat.', Nov. '82). Egton Bridge (F.F., '03).

825. **Lactarius** (Piper.) **vellereus** Fr.

Frequent. Has been recorded for all the county divisions.

826. **Lactarius** (Piper.) **involutus** Soppitt.

Mid W.—Bolton Woods (Grev. xix., p. 41 ; Cooke's Illustr. pl. 1194). Differs from *L. scoticus* and all known species in the smooth elliptical spores (Mass. Eur. Agaricaceæ, p. 66).

827. **Lactarius** (Dapetes) **deliciosus** (Linn).

S.E.—Skipwith (Nat., Dec. '78). Blackwood (F.F., '96).

N.E.—Scarboro' (Tr. ix.). Castle Howard (F.F., '92). Arncliffe (F.F., '94). Kirkdale and Eastmoor (H. Slater). Near fir plantation between Flockton and Seamer (W.W.S.).

Mid W.—Fir-wood, Adel Dam ; Harrogate (Lees' Fl.). Bramham (F.F., '88). Grassington.

N.W.—Brignall Banks (*Nat., Sep. '03). Edible.

828. **Lactarius** (Russularia) **pallidus** (Pers.).

S.W.—Huddersfield ; Heaton Woods (Lees' Fl.). Potridings Wood (F.F., 1901).

S.E.—Selby (F.F., '84). Kirkham Abbey (* Nat., Nov. '89).

N.E.—Scarboro', Mulgrave (F.F., '94). Rievaulx (F.F., '03),

829. **Lactarius** (Russ.) **quietus** Fr.

More or less common in all moist woods so far investigated. Records numerous.

830. **Lactarius** (Russ.) **aurantiacus** Fl. Dan.

N.E.—Scarboro'. In woods among moss, etc.

Mid W.—Bramham (F.F., '88).

S.W.—Goitstock (Fl., Skipt.).

831. **Lactarius** (Russ.) **theiogalus** (Bull.).

S.W.—" In Ramsden, and many other woods about Hx." (Bolton, Tab. 9). Hebden Bridge. Penny Spring Wood, Huddersfield (H.B.S.). Shipley Glen (Lees' Fl.). Hugsett (F.F., '97).

N.E.—Scarboro'. Castle Howard (F.F., '92).

Mid W.—Beckwithshaw (F.F., '81). Bishops' Wood (F.F., '84).

832. **Lactarius** (Russ.) **cremor** Fr.

Var. **pauper** Karst.

S.W.—Hebden Bridge (Fl. Hx.).

833. **Lactarius** (Russ.) **vietus** Fr.

N.E.—Staithes (* Nat., Ap. '98). In damp, mixed woods.

834. **Lactarius** (Russ.) **rufus** Scop.

Frequent. Recorded for all the county divisions.

835. **Lactarius** (Russ.) **helvus** Fr.

N.E.—Scarboro'. Damp mossy places in woods.

S.W.—Huddersfield (J. Sutcliffe). Goitstock, 1903. Crimsworth Dean, Hebden Bridge (Fl. Hx.).

836. **Lactarius** (Russ.) **tomentosus** Otto.

S.W.—Midgehole, Hebden Bridge (Fl. Hx.).

837. **Lactarius** (Russ.) **mammosus** Fr.

N.E.—Scarboro'. (Grev. xvii., p. 2; Cooke's Illustr. pl. 995).

Mid W.—Meanwood (F.F., '81).

838. **Lactarius** (Russ.) **glyciosmus** Fr.

Frequent in both pine and mixed woods. Recorded for all the county divs.; records numerous for S.W.

839. **Lactarius** (Russ.) **fuliginosus** Fr.

N.E.—Scarboro'. Arncliffe (F.F.,'94). Egton Bdg. (F.F.'02).

S.W.—Edlington Woods (F.F., '91). Maltby Wood (T.G.).

S.E.—Pocklington (F.F., '93). In woods.

840. **Lactarius** (Russ.) **picinus** Fr.

N.E.—Scarboro'. Arncliffe Woods (F.F., '02).

841. **Lactarius** (Russ.) **ligniotus** Fr.

N.E.—Scarboro'. Mulgrave (F.F., '94).

Among moss in damp places under fir trees, etc.

842. **Lactarius** (Russ.) **volemus** Fr.

S.W.—Shipley Glen (Tr. ix.). Edlington Woods (F.F.,'91). Owston (F.F., '99). Halifax and Hebden Bdg. (Fl. Hx.).

N.E.—Scarboro'. Mulgrave Woods (F.F., '94). Egton Bridge (F.F., '02). Helmsley (F.F., '03). In woods.

Mid W.—Grassington (Exc. 1900). Edible.

843. **Lactarius** (Russ.) **serifluus** (DC.).

S.E.—Market Weighton (* Nat., Oct. 1880).

N.E.—Scarboro' (Nat., June '81). Castle Howard (F.F.,'92).

Mid W.—Beckwithshaw and Studley Royal (F.F., '81). Horsforth (Tr. ix.).

S.W.—Huddersfield (H.B.S.). Roche Abbey Valley; Bingley; Allerton; Shipley Glen (Lees' Fl.). Goitstock. Hebden Bdge.; Luddenden and North Dean (Fl. Hx.).

N.W.—Masham (Nat., May '03). In woods.

844. **Lactarius** (Russ.) **mitissimus** Fr.

Frequent in moist woods. Recorded for all the county divisions. Distribution general.

845. **Lactarius** (Russ.) **subdulcis** (Bull.).

S.W.—"In woods about Hx. abundantly from Aug. to Nov." (Bolton, Tab. 3).

Common. Distribution general.

846. **Lactarius** (Russ.) **camphoratus** Fr.

N.E.—Scarboro'. Helmsley (F.F., '03). In woods.

S.W.—In many woods in the neighbourhoods of Hebden Bridge and Halifax (Fl. Hx.). Huddersfield (F.F., '95). Goitstock. Strines near Sheffield.

N.W.—Masham (Nat., Jan. '02).

847. **Lactarius** (Russ.) **cimicarius** Batsch.

N.E.—Scarboro'. In woods.

848. **Lactarius** (Russ.) **subumbonatus** Lindgr.

N.E.—Scarboro'. The first British record was based on specimens from Scarboro' fig. in Cooke's Illustr. pl. 986A. Arncliffe, misprinted *subtomentosus* in Nat., Nov. 1902. Helmsley (F.F., '03). On the ground in woods.

S.W.—Sandal Beat (F.F., 91). Hebden Bdg., etc. (Fl. Hx.). Huddersfield (F.F., '95). Owston (F.F., '99). Goitstock.

Mid W.—Harewood (F.F., '98).

849. **Lactarius** (Russ.) **obnubilus** Lasch.

N.E.—Scarboro'. In woods.

Var. **crenatus** Mass. Variety founded on specimens from Scarboro' (Cooke's Illustr. pl. 1014A).

850. **Lactarius** (Russ.) **minimus** W.G.Sm.

S.W.—Hebden Bridge (Nat., Sep. '92). Luddenden Dean, etc. (Fl. Hx.). Wharncliffe (* Nat., Oct. '03).

851. **Lactarius** (Russ.) **obliquus** Fr.

S.W.—Sun Wood, Lightcliffe (Fl. Hx.).

RUSSULA Pers.

As in the preceding genus, Lactarius, the members of this family are almost wholly terrestrial, and grow in woods or woodside fields under trees.

852. **Russula nigricans** (Bull.) Fr.

S.W.—"In the dry parts of woods about Hx. in Oct." (Bolton, Tab. 28 = *Ag. elephantinus*).

Common in mixed woods. Distribution general.

853. **Russula adusta** Pers.

Not quite so common as *nigricans*, but generally distributed.

854. **Russula densifolia** Secr.

N.E.—Scarboro'. Arncliffe (F.F., '94). Helmsley (F.F., '03).

Mid. W.—Bramham (F.F., '88).

S.W.—Edlington Wood (F.F., '91). Goitstock. Luddenden Dean (Fl. Hx.).

S.E.—Everingham (F.F., '93). In woods.

The first British record was founded on the Scarboro' specimens, fig. in Cooke's Illustr. pl. 1017.

855. **Russula semicrema** Fr.

N.E.—Castle Howard (F.F., '92). Rievaulx (F.F., '03).

856.—**Russula chloroides** Bresad. (= *Lact. exsuccus* Otto; *Ag. chloroides* Krombh.; *Russula delica* Mass, etc., not of Cooke).

S.W.—Edlington Wood (F.F., '91). Goitstock.

N.E.—Castle Howard (F.F., '92). Helmsley (F.F., '03).

857. **Russula delica** Fr.

In view of the confusion which has until recently prevailed between this sp. and *chloroides* the records for *delica* are omitted; see Nat. Jan., 1902, p. 2.

858. **Russula mustelina** Fr.

S.W.—Goitstock Wood.

N.E.—Limber Wood (F.F., '03).

859. **Russula olivascens** Fr.

Mid. W.—Harewood (F.F., '98).

S.W.—Luddenden Dean, and near Hebden Bridge (Fl. Hx.).

860. **Russula furcata** Pers.

N.E.—Scarboro' Mulgrave Woods (F.F., 1900).

S.E.—Allerthorpe (F.F., '93).

S.W.—Huddersfield (Lees' Fl.). Edlington (F.F., '91). Several places near Halifax and Hebden Bridge (Fl. Hx.). Wooldale, Thongsbridge (C. H. Broadhead).

Mid. W.—Harewood (F.F., '98).

N.W.—Masham (Nat., Jan. 1902).

861. **Russula sanguinea** Fr.

Mid. W.—Newlay (Nat., July '81).

S.W.—Luddenden (Nat., Sep. '92). Goitstock (Fl. Skipt.).

862. **Russula rosacea** Fr.

Mid. W.—Langstrothdale.

S.W.—Sutton, near Askern (F.F., '99). Goitstock.

863. **Russula sardonia** Fr.

S.W.—Steeton (Lees' Fl.). Huddersfield (F.F., '95). Hebden Bridge (Fl. Hx.).

N.E.—Scarboro'. Bulmer. Castle Howard. Arncliffe.

S.E.—Escrick (F.F., '96).

864. **Russula depallens** Fr.

S.W.—North Dean. Hx. (Nat., Nov. '91). Barnsley (Nat., Sep. '91). Huddersfield (F.F., '95). Goitstock; Bingley (Fl. Skipt.). Luddenden Dean, and near Hebden Bridge (Fl. Hx.).

N.E.—Scarboro'. Castle Howard and Welham Park (F.F., '92). Arncliffe (F.F., '94). Mulgrave (F.F., 1900).

S.E.—Selby (F.F., '84). Blackwood (F.F., '96).

865. **Russula purpurea** Gillet.

Mid. W.—Harewood (F.F., '98).

N.E.—Helmsley (F F., '03).

S.E.—Escrick (F.F., '96).

866.—**Russula cœrulea** Pers.

S.W.—Crimsworth Dean, Hebden Bridge (Fl. Hx.).

Mid. W.—Bramham (F.F., '88).

S.E.—North Cave, 1903 (A. R. Warnes).

867. **Russula drimeia** Cke. (=*R. expallens* Gillet).

Mid. W.—Bramham (F.F., '88). Grassington (Exc. 1900).

N.E.—Cloughton (Nat., Jan. '92). Castle Howard.

S.E.—Everingham, and Allerthorpe (F.F., '93). Blackwood (F.F., '96).

S.W.—Crimsworth Dean, Hebden Bridge (Fl. Hx.).

868. **Russula lactea** Fr.

S.W.—Cottingley (Lees' Fl.). Goitstock. Hebden Bridge (Fl. Hx.).

Var. **incarnata** Quel.

S.W.—North Dean Wood (Fl. Hx.).

869. **Russula virescens** (Schæff.).

Frequent. Has been recorded for all the county divisions except N.W. Edible.

870. **Russula cutefracta** Cke.

S.W.—Hx. and Hebden Bridge (Fl. Hx.). Goitstock. Wharncliffe (*Nat., Oct. '03).

N.E.—Mulgrave Wood (F.F., '02). Rievaulx (F.F., '03).

871.—**Russula lepida** Fr.

Mid. W.—Esholt (Nat., Sep. '91). Bramham; Harewood.

N.E.—Scarboro'. Castle Howard and Welham Park (F.F., '92). Stokesley (Exc. 1899).

S.E.—Allerthorpe (F.F., '93).

S.W.—Huddersfield (F.F., '95). Hx. several places (Fl. Hx.).

872.—**Russula rubra** DC.

Frequent. Recorded for all the county divisions.

873. **Russula Linnæi** Fr.

N.E.—Scarboro'. In woods.

874. **Russula xerampelina** Fr.

N.E.—Scarboro'. Castle Howard. Mulgrave Woods.

S.E.—Escrick (F.F., '96).

875. **Russula olivacea** Fr.

Mid. W.—Harewood (F.F., '98).

S.W.—Goitstock.

876. **Russula vesca** Fr.

Frequent. Recorded for all the county divs. Edible.

Var. **lilacea** Quel.

S.W.—Several places about Hx. (Fl. Hx.). Goitstock.

877. **Russula azurea** Bres.

N.E.—Scarboro'. Egton Bridge (F.F., '02).

S.W.—Goitstock.

878.—**Russula cyanoxantha** (Schæff.).

S.W.—"Grows in all the woods about Hx. in plenty from Aug. to Nov." (Bolton, Tab. 1).

Very common; found in almost all the moist, mixed woods throughout the county so far investigated.

879. **Russula heterophylla** Fr.

Common. Recorded for all the county divisions. Colour somewhat variable. Edible.

880. **Russula consobrina** Fr.

N.E.—Castle Howard (F.F., '92).

S.W.—Hebden Bridge (Fl. Hx.).

S.E.—Escrick (F.F., '96).

Var. **sororia** Larb.

S.W.—Huddersfield. Hebden Bridge (Fl. Hx.).

N.E.—Staithes (*Nat., Ap. '98). Mulgrave (F.F., 1900).

881. **Russula fœtens** Pers.

N.E.—Scarboro' (Tr. ix.). Bulmer. Arncliffe (F.F., '94). Stokesley (Exc., 1899). Mulgrave Woods (F.F., 1900).

Mid. W.—Beckwithshaw (F.F., '81). Meanwood (Tr. ix.). Harewood (F.F., '98).

S.E.—Selby (F.F., '84). Allerthorpe (F.F., '93).

S.W.—Huddersfield (F.F., '95). Goitstock. Bingley (Fl. Skipt.). Hebden Bridge (Fl. Hx.).

882. **Russula subfœtens** Sm.

Mid. W.—Harewood (F.F., '98).

883. **Russula fellea** Fr.

Frequent. Recorded for all the county divs. Poisonous.

884. **Russula Queletii** Fr.

S.E.—Allerthope (F.F., '93).

885. **Russula emetica** Fr.

Common in woods. Distribution general. Poisonous.

Var. **Clusii** Fr. Mulgrave Woods (F.F., 1900).

Var. **fallax** Schæff. Scarboro' (Tr. iv.).

886. **Russula ochroleuca** Fr.

Common in woods. Distribution general.

887. **Russula granulosa** Cke.

Frequent. Recorded for all the county divisions except N.W.

888. **Russula æruginea** Fr.

N.W.—Masham (Nat., Jan. 1902).

889. **Russula fragilis** Pers.

Very common in moist woods. Distribution general.

S.W.—Var. **nivea** Cke. Hebden Bridge (Fl. Hx.).

S.W.—Var. **violacea** Quel. Huddersfield (F.F., '95). Hebden Bridge, North Dean (Fl. Hx.). Goitstock.

890. **Russula citrina** Gillet.

N.E.—Mulgrave (F.F., 1900), Hebden Bdg. (Fl. Hx.).

891. **Russula veternosa** Fr.

S.E.—Everingham (F.F., '93).

S.W.—Huddersfield (F.F., '95). Hebden Bdg. (Fl. Hx.).

N.E.—Staithes (* Nat., Ap. '98).

Mid W.—Harewood (F.F., '98).

N.W.—Healey near Masham, Aug. 1903.

892. **Russula integra** Fr.

N.E.—Scarboro'. Helmsley (F.F., '03).

S.W.—Several woods near Hx. and Hebden Bdg. (Fl. Hx.).

Mid W.—Bishops' Wood (F.F.,'96). Harewood (F.F.,'98).

N.W.—Masham (Nat., Jan. 1902).

893. **Russula decolorans** Fr.

N.E.—Scarboro'.

S.E.—Allerthorpe (F.F., '93).

S.W.—Huddersfield. Goitstock. Hebden Bdg. (Fl. Hx.).

894. **Russula Barlæ** Quel.

N.E.—Castle Howard (F.F., '92).

895. **Russula aurata** Fr.

S.W.—Edlington Wood (F.F., '91). Bingley Wood (Lees' Fl.). North Dean Wood.

896. **Russula nitida** Pers.

N.E.—Scarboro'.

S.W.—Bradford (Nat., Mar. '85). Roche Abbey Valley; Bingley Woods (Lees' Fl.).

Var. **cuprea** Krombh.

Mid W.—Bramham. Under firs. First British record (Nat., Nov. '88), fig. in Cooke's Illustr. pl. 1095B.

897. **Russula armeniaca** Cke.

S.W.—Goitstock.

N.E.—Helmsley and Rievaulx (F.F., '03).

898.—**Russula puellaris** Fr.

Mid. W.—Harewood (F.F., '88).

N.E.—Helmsley (F.F., '03).

S.W.—Elland Park Wood (Fl. Hx.). Wharncliffe (*Nat., Oct. '03).

899. **Russula alutacea** Fr.

S.E.—Skipwith (Nat., Dec. '78). Market Weighton ('80).

N.E.—Scarboro'.

Mid. W.—Studley Royal (F.F., '81). Barlow Woods (F.F., '84). Hawkesworth (Lees' Fl.).

S.W.—Huddersfield (1883). Roche Abbey Valley (Lees' Fl.). Elland Park Wood (Nat., Sep. '92). Hebden Bridge (Fl. Hx.).

900. **Russula ochracea** A. & S.

N.E.—Scarboro'.

N.W.—Goitstock. Luddenden Dean; Crag Vale; North Dean Wood; and Hebden Bridge (Fl. Hx.).

S.E.—Hessle (Hull S. & F.N.C., 1902).

901. **Russula lutea** (Huds.).

Mid W.—Beckwithshaw (F.F.,'81). Bramham (F.F.,'88). Bolton Woods (Nat., Sep. '91).

S.W.—Goitstock; Saltaire (Lees' Fl.). Edlington Wood; Sandal Beat (F.F., '91). Owston (F.F., '99). Luddenden Dean, and Hebden Bridge (Fl. Hx.). Wharncliffe (*Nat., Oct. '03).

N.E.—Scarboro'. Castle Howard (F.F., '92). Arncliffe Woods (F.F., '02). Rievaulx (F.F., '03).

902. **Russula nauseosa** Pers.

N.E.—Scarboro'.

S.W.—Hebden Bridge (Fl. Hx.). Goitstock. (Cooke's Illustr., pl. 1147; 1063B).

903. **Russula vitellina** Fr.

MID. W.—Bishop's Wood; Hambleton.

N.E.—Helmsley (*Nat., Sep. '84).

CANTHARELLEÆ.

CANTHARELLUS Adans.

904. **Cantharellus cibarius** Fr.

S.W.—Hx. (Bolton, Tab. 62).

Common in woods, especially beech, on bare soil. Distribution general. Records numerous. Edible.

Var. **rufipes** Gillet. Hebden Bridge (Fl. Hx.).

905. **Cantharellus aurantiacus** Fr.

On heathy banks, and in fir woods. Frequent. Recorded for all the county divisions. Poisonous.

906. **Cantharellus Brownii** B. & Br.

S.E.—Boynton (W.W.S.).

907. **Cantharellus carbonarius** A. & S.

S.W.—Wharncliffe Woods, on charcoal bed. (Lees' Fl.).

908. **Cantharellus tubæformis** Fr.

S.W.—Bingley (Tr. ix.). Hebden Bridge (Fl. Hx.).

N.E.—Scarboro'. Mulgrave and Arncliffe Woods (F.F.,'94). Helmsley and Rievaulx (F.F., '03).

909. **Cantharellus infundibuliformis** Fr.

S.E.—Boynton (W.W.S.). In woods.

MID W.—Studley Royal (F.F., '81). Bolton Woods (Fl. Skipt.).

N.E.—Scarboro'. Helmsley (F.F., '03). Mulgrave.

S.W.—Hebden Bridge (Nat., Sep. '92). Luddenden (Fl.Hx.).

910. **Cantharellus cinereus** (Pers.) Fr.

S.W.—"This Agaric I found in Lee-Bank-Shroggs in Oct. 1786" (Bolton, Tab. 34).

Mid. W.—Esholt (Nat., Sep. '91). Bramham (F.F., '88).

911. **Cantharellus muscigenus** (Bull.).

S.W.—Wharncliffe Woods (Tr. ii.). Steeton (Fl. Skipt.).

Mid W.—Settle (*Nat., Sep. '78).

N.E.—Scarboro'. On the larger mosses, as *Hypnum*, etc.

912. **Cantharellus retirugus** (Bull.)

N.E.—Scarboro'. On mosses, as *Hypnum*, etc.

913. **Cantharellus lobatus** Fr.

S.W.—Hx. On mossy soil. (Bolton, Tab. 177).

N.E.—Scarboro.' Carlton-in-Cleveland (*Nat., Ap. '01).

Mid W.—Knaresboro'. On *Hypnum*, 1904 (H. Fisher).

NYCTALIS Fr.

914. **Nyctalis asterophora** Fr.

N.E—Scarboro'. Parasitic on *Russula nigricans*.

S.W.—Edlington Wood (F.F., '91, W. White).

The mealy appearance of the pileus is due to the presence of myriads of large spinulose spores, which were at one time considered as the spores of a parasitic mould called *asterophora*. These, however, have recently been proved by Brefeld to be a conidial form of reproduction of the Nyctalis.

915. **Nyctalis parasitica** (Bull).

S.W.—"On old plants of *Agaricus integer*, in Woodhouse Wood (Hx., 1790), but is rare there" (Bolton, Tab. 155).

Parasitic on species of *Russula*. Frequent. Has been recorded for all the county divisions.

MARASMIEÆ.

MARASMIUS Fr

916. **Marasmius urens** (Bull).

S.W.—Lepton (H.B.S.). Roche Abbey Valley; Goitstock (Lees' Fl.). Huddersfield (F.F., '95). Sutton (F.F., '99).

MID W.—Barlow Wood (Lees' Fl.). Harewood (F.F., '98). Hawkesworth, 1903 (J. E. Sutcliffe).

N.W.—Masham (Nat., Jan. 1902).

Woods and grassy places among leaves. The species commonly known as *M. urens* in England does not quite agree with Bulliard's figures.

917. **Marasmius peronatus** (Bolt.).

S.W.—Hx., 1787. "A rare species here; grows in the deep and moist parts of woods amongst the fallen oak-leaves" (Bolton, Tab. 58).

Common in woods among decaying leaves. Distribution general.

918.—**Marasmius oreades** (Bolt.).

S.W.—Hx., 1787. "This agaric is more frequent in those green circles which we call *fairy rings* than any other species. Is also to be found in pasture grounds, and about the borders of woods" (Bolton, Tab. 151).

The *fairy-ring* mushroom. Edible.

Common in pastures and meadows. Records numerous.

919. **Marasmius plancus** Fr.

N.E.—Rievaulx (F.F., '03). In woods.

920. **Marasmius prasiosmus** Fr.

N.E.—Scarboro' (Grev. xviii. p. 20). Among leaves.

S.W.—Hebden Bridge (Nat., Sep. '92). On beech-leaf mould.

921. **Marasmius fuscopurpureus** (Pers.).

N.E.—Rievaulx (F.F., '03). On sticks, etc., in woods.

922. **Marasmius terginus** Fr.

MID W.—Bramham (F.F., '88). Among leaves.

923. **Marasmius erythropus** Fr.

N.E.—Scarboro' (Tr. ix.). Arncliffe Woods (F.F., '94). Egton Bridge (F.F., 1902).

MID W.—Studley Royal (F.F., '81). Harewood (F.F., '88). Grassington (Exc., 1900).

S.W.—Potridings (F.F., '01). Wharncliffe.

In woods among dead leaves near stumps.

924. **Marasmius archyropus** (Pers.).
N.E.—Scarboro'. Among fallen leaves, etc.
Mid W.—Grassington (Exc., 1900).

925. **Marasmius scorodonius** Fr.
N.E.—Scarboro'. Heaths, dry pastures, on twigs, etc.

926. **Marasmius calopus** (Pers.).
S.E.—Everingham (F.F., '93). On twigs, etc.

927. **Marasmius Vaillantii** Fr.
N.E.—Mulgrave Woods (F.F., '02). Helmsley (F.F., '03). On decaying wood.

928. **Marasmius languidus** Fr.
S.W.—"On withered grass in a fir plantation near Cullingworth (Lees' Fl.).

929. **Marasmius fœtidus** (Sow.).
N.E.—Cloughton (Nat., Jan. '92). On rotten branches.

930. **Marasmius amadelphus** Fr.
S.W.—Odsal Wood (Lees' Fl.).
N.E.—Egton Bridge (F.F., '02). On dead branches.

931. **Marasmius lagopinus** Post. Fr. Hym. Eur. 474.
N.E.—Helmsley (F.F., 1903, Nat., Jan. 1904, p. 2, figs. 8-10). Growing from an old wound on fallen branch.

932. **Marasmius ramealis** (Bull.).
On bramble stems, dry fallen branches, twigs, etc., in woods. Very common. Distribution general.

933. **Marasmius candidus** (Bolt).
S.W.—Hx. "Grows in Wood-house Wood, but is rare there. They often grow many near together on the same stick, but have separate roots" (Bolton, Tab. 39 D).

Elland. "The figure in the Table above referred to (39 D) being taken from poor and mean specimens, and the plant a rare one, I thought it could not be amiss to add another figure, as on Tab. 206, which is taken from well-grown specimens as I gathered them on rotten stems in the shady and moist part of Elland Park, near Halifax, in September

1792" (Bolton, unpublished Tab. 206, Brit. Mus. Nat. Hist. coll., n. 1414). Campsall (F.F., 1899).

N.E.—Egton Bridge (F.F., 1902).

934. **Marasmius cauticinalis** (With.).

N.E.—Scarboro' (Nat., July '81).

935. **Marasmius rotula** (Scop.).

On dead twigs, etc. Common. Distribution general.

936. **Marasmius graminum** (Lib.).

S.W.—Heaton (Lees' Fl.) Elland (Fl. Hx.) On grass.

937. **Marasmius androsaceus** (Linn.).

S.W.—"Grows on putrid leaves, chiefly those of oak in the shady moist parts of woods about Halifax; it also grows on moors, among rushes. I saw it in great abundance in Sep. this year, 1787, on the hill above Causey-Foot, near Hx., it grew upon the stalks of decayed rushes, in the place where *Trientalis europæa*, and *Ophrys cordata* grow" (Bolton, Tab. 32).

Common on fallen leaves of oak and beech, fern stems, etc.; has been noted on dead *Rubus idæus* stems, and on pine leaves, at Masham. Distribution general.

938. **Marasmius splachnoides** Fr.

N.E.—Among pine leaves, Rievaulx (F.F. '03).

939. **Marasmius institutus** Fr.

N.E.—Scarboro'. Bulmer. Raincliffe Wood (W.W.S.). Mulgrave Woods (F.F., 1900).

S.W.—Roche Abbey Valley (Lees' Fl.).

940. **Marasmius Hudsoni** (Pers.).

N.E.—Between Egton and Grosmont (W.W.S.). Mulgrave Woods (FF., 1900). Egton Bridge (F.F., '02).

On dead holly-leaves.

941.—**Marasmius epichloe** Fr.

Mid W.—On dead grass near Ilkley (Lees' Fl.).

942. **Marasmius saccharinus** Fr.

S.W.—On moist, decaying twigs, North Dean W. (Fl. Hx.).

N.W.—Masham (Nat., Jan. '02). On twigs.

943. **Marasmius epiphyllus** Fr.

S.W.—"Grows in damp woods, common about Hx." (Bolton, Tab. 39A). On dead leaves, twigs, etc.

N.E.—Scarboro' and Castle Howard (Nat., July '81).

MID W.—Studley Royal (F.F., '81). Bishop's Wd. (F.F., '96). Bramham and Harewood (F.F. '88).

S.W.—Huddersfield. Edlington (F.F. '91). Wyming Brook, near Sheffield.

944. **Marasmius polyadelphus** Lasch.

N.W.—Masham (Nat., Jan. '02). On fallen thorn-leaves.

LENTINUS Fr.

945. **Lentinus tigrinus** (Bull.).

S.W.—Southowram, Hx. (Bolton, unpublished drawing in Brit. Mus. Nat. Hist. coll. n., 1432). Stairfoot, Barnsley (F.F., '97). On old stump.

N.W.—Masham (Nat., Jan. '02).

946. **Lentinus lepideus** Fr.

S.W.—On old wooden bridge, Sowerby Bridge, and at Darton (Hud. Bot. Soc. 1883). On piles in the River Ouse, Goole (Tr. ii.) On wood in a cellar at Bradford (Lees' Fl.).

N.E.—Scarboro'.

Var. **contiguus** Fr.

S.W.—Ovenden, Hx. (Nat., Dec. '90).

947. **Lentinus squamosus** Schultz.

S.W.—On woodwork in garden, Heath, Hx., 1903 (Fl. Hx.).

948. **Lentinus cochleatus** Fr.

S.W.—Brackenbed, Ovenden, Sep. 1787 (Bolton, Tab. 8.). Bradley Gate Wood (H.B.S. 1883). Odsal Wood (Lees' Fl.). Heaton near Bradford (Nat., Feb. '86.). On stump. Ovenden (Nat., Nov. '91). Stainboro' (F.F., '97). Hebden Bridge. Woodhouse Wood and North Dean Wood (Fl. Hx.).

N.E.—Scarboro' (Nat., July '81). Mulgrave (F.F., '02).

MID W.—Bishops' Wood (F.F.,'96). Harewood (F.F.,'98).

N.W.—Masham (Nat., May '03).

Infrequent, on dead stumps.

949. **Lentinus flabelliformis** (Schæff.).

S.W.—"On the side of an old tree, beside the brook below Mixenden Mill, Feb. 1790" (Bolton, Tab. 157). Some authors consider this Tab. to represent a form of *Ag. salignus*.

PANUS. Fr.

950. **Panus conchatus** Fr.

S.E.—Skipwith. (Nat., Dec. '78). Allerthorpe (F.F., '93). Escrick (F.F., '96). On tree trunks.

N.W.—Masham (Nat., Jan. '02).

S.W.—Hebden Bridge. On beech trunk (Fl. Hx.).

951. **Panus torulosus** Fr.

S.W.—"On stumps of trees, Northowram, Aug. 1791" (Bolton, Tab. 146). On beech stump, Rough Hey Wd., Norland (Fl. Hx.). Farnley and Thurstonland (Hud. Bot Soc.). Hook, near Goole (Lees' Fl.). Melton (F.F., '01).

Mid W.—Hawkesworth (Nat., Feb. '86).

952. **Panus stipticus** (Bull.).

S.W.—"Woodhouse Wood, etc. (Hx.) on putrid wood" (Bolton, Tab. 72 f. 1). Common on decaying trunks, stumps, etc. Distribution general.

953. **Panus farinaceus** Schum.

Var. **albido-tomentosus** Cke & Mass.

S.W.—Notton near Barnsley (F.F., '97).

LENZITEÆ.

LENZITES Fr.

954. **Lenzites betulina** (Linn).

N.E.—Scarboro'. On trunks and stumps, mostly birch.

S.W.—Steeton, and near Sheffield (Lees' Fl.). Savin Royd, near Barnsley (F.F., '97).

Mid W.—Bolton Woods (Lees' Fl.). Stainer Wood, on *Alnus glutinosus* (Nat., Ap. '03).

955, **Lenzites flaccida** (Bull.).

S.W.—"Grew on old pales near Shibden Hall, Jan. 1791" (Bolton, Tab. 158).

N.E.—Scarboro'. Mulgrave (F.F., 1900). Rievaulx (F.F., '03). On trunks and stumps of beech, etc.

956. **Lenzites sepiaria** Fr.

N.E.—Scarboro' (Nat., July '81). On fir.

S.W.—On piles in the River Ouse, Goole (Tr. ii). Whitley Woods near Huddersfield. On pine logs.

957.—**Lenzites abietina** (Bull.).

N.E.—Scarboro'. On fir trunks, deals, etc.

SCHIZOPHYLLÆ.

958. **Schizophyllum commune** Fr.

S.E.—Selby (Tr. ii). Riccall, on wood in woodyard; also on old, half-decayed ash log in Hemingbrough Wood (Nat., Mar. 1904).

N.E.—Scarboro' (Nat., Jy. '81). On decaying trunks.

S.W.—On imported wood, railway station, Liversedge. Wood yard, Steeton (Nat., Feb. '86). On hickory logs from Nova Scotia, in timber yard, Keighley (T. Hebden). On sycamore trunk, Hebden Bridge (Fl. Hx).

POLYPORACEÆ.

BOLETEÆ.

BOLETUS. Dill

959. **Boletus luteus** L.

N.E.—Scarboro'. Thirsk (Nat., Nov. '82). Castle Howard (F.F.,'92). Arncliffe (F.F.,'94). Mulgrave Woods (F.F., 1900). Egton Bridge (F.F.. '02). Eastmoor, Helmsley (F.F., '03).

S.E.—Blackwood (F.F., '84). Pocklington (F.F., '93).

Mid W.—Washburndale (Nat., Sep. '83).

S.W.—Hainworth, Keighley (Lees' Fl.). Huddersfield (F.F., '95). Goitstock (Fl. Skipt.).

On the ground, mostly in and about pine woods.

960. **Boletus elegans** (Schum.).

Mid W.—Harrogate (F.F., '81). Esholt (Lees' Fl.). Bishops' Wood (F.F., '96). Harewood (F.F., '98).

N.E.—Leckby Carr (Nat., Nov. '82, Thirsk Exc.) Scarboro' (Nat., Jy.'81). Arncliffe and Mulgrave Woods (F.F.,'94). Egton Bridge (F.F.,'02).

S.E.—Everingham (F.F., '93). Escrick (F.F., '96).

961. **Boletus flavidus** Fr.

N.E.—Seamer Moor, Scarboro'. In pine woods.

962. **Boletus flavus** With.

S.W.—"Grew in plenty in the wood opposite Burks-Hall (Hx). in Aug. 1760" (Bolton, Tab. 169). In and about mixed woods. Common. Distribution general.

963. **Boletus chrysenteron** Fr.

Very common in mixed woods everywhere.

Var **nanus** Mass, Hebden Bridge (Fl. Hx.).

964. **Boletus striæpes** Secr.

S.W.—Nab Wood (Lees' Fl.). Luddenden (Nat., Sep.'91).

965. **Boletus subtomentosus** L.

S.W.—Hx. "In woods, July and Aug. The most early of autumnal fungi" (Bolton, Tab. 84, middle fig.) Common in mixed woods. Distribution general. Very nearly allied to, if even distinct from *B. chrysenteron.*

966. **Boletus impolitus** Fr.

N.E.—Scarboro'. In woods and on heaths.

Mid W.—Newlay (Nat., July '81).

967. **Boletus sulphureus** Fr.

S.E.—Everingham (F.F., '93).

N.E.—Hackness (Exc. 1897).

S.W.—On stump, Bogden, Rishworth (Fl. Hx.).

968. **Boletus variecolor** B. & Br.

N.E.—Scarboro'. (Tr. ix.). Arncliffe (F.F., '94).

S.W.—Near Hebden Bridge (Nat., Sep. '92). In woods.

S.E.—Blackwood (F.F., '96).

Mid W.—Bolton Woods (Fl. Skipt.)

969. **Boletus olivaceus** Schæff.

S.W.—Lilland Wood, Rastrick (Hud. Bot. Soc.).

Mid W.—Bolton Woods (Nat., Sep.'91).

970. **Boletus fulvidus** Fr.

N.E.—Scarboro'. On the ground under trees.

971. **Boletus spadiceus** Schæff.

S.E.—Escrick (F.F., '96). In a mixed wood.

972. **Boletus vaccinus** Fr.

N.E.—Scarboro'. On the ground under beeches.

973. **Boletus Rostkovii** Fr.

N.E.—Mulgrave Woods (F.F., 1900).

974. **Boletus cyanescens** Bull.

S.W.—Hebden Bridge. In woodland pasture (Fl Hx).

975. **Boletus parasiticus** Bull.

N.E.—Scarboro'. A small species parasitic on *Scleroderma verrucosum*.

976. **Boletus duriusculus** Schulz.

N.E.—Scarboro'. On the ground. Having much the appearance of *B. scaber*, differing more especially in the flesh assuming a coppery tint when cut, and in the yellow tubes. Edible.

977. **Boletus variegatus** Swartz.

N.E.—Seamer Moor, Scarboro'. On the ground among heather. Eastmoor (Helmsley F.F., '03).

S.E.—Blackwood, Selby (F.F., '96).

978. **Boletus badius** L.

On the ground in both mixed and pine woods. Common. Records numerous. Distribution general.

979. **Boletus piperatus** Bull.

S.W.—Shelley (Hud. Bot. Soc.). Hardcastle and Hollock Lee (Fl. Hx.). Nab Wood, Saltaire (Lees' Fl.). Goitstock. Notton, near Barnsley (F.F., '97). Wharncliffe (Nat., Sep. '03).

Mid W.—Oughtershaw (Nat., May '91).

N.E.—Castle Howard. Scarboro'. Arncliffe (F.F., '94).

N.W.—Masham (Nat., Jan. '02).

On the ground in woods. As the name denotes, the taste is very pungent and peppery.

980. **Boletus paludosus** Mass.

N.E.—Scarboro'. Among *Sphagnum* in swamp.

The species was founded on the Scarboro' specimens.

981. **Boletus bovinus** L.

S.W.—Hx. Bolton's Cat. of Hx. plants (Watson's History of Halifax, 1775). Nab Wood, Saltaire (Lees' Fl.). Hebden Bridge (Fl. Hx.).

N.E.—Scarboro'. In a heathy wood. Arncliffe (F.F., '94).

Mid W.—Brayton (Lees' Fl.).

S.E.—Blackwood (F.F., '84). In a fir wood.

982.—**Boletus granulatus** L. Edible.

S.E.—Skipwith (Nat., Dec. '78).

Mid W.—Harrogate (F.F.,'81). Bishop's Wood (Lees' Fl.). Oughtershaw (Nat., May '91).

S.W.—Near Cullingworth; Bingley Woods (Lees' Fl.).

N.E.—Scarboro'. Welham Park (F.F., '92). Mulgrave (F.F., 1900). On the ground under firs.

N.W.—Masham (Nat., Jan. '02).

983. **Boletus tenuipes** Cke.

N.E.—Forge Valley, Scarboro' On the ground.

By far the smallest of British species. The pileus ranging from one to two inches across.

984. **Boletus aurantiporus** Howse.

N.E.—Scarboro'. Under trees. Much resembling *B. chrysenteron*; differing in the deep orange pores.

S.W.—Broadbottom, near Hebden Bridge (Fl. Hx.).

985. **Boletus pachypus** Fr.

N.E.—Scarboro'. In woods.

S.W.—Bingley Woods; frequent. (Lees' Fl.).

986. **Boletus edulis** Bull.

S.W.—"Near Burks Hall" (Hx.), Bolton, unpublished Tab. in Brit. Mus. Nat. Hist. coll., n. 1490.

Frequent in woods; exhibits a preference for those of beech. Recorded for all the county divisions.

Edible. A fine large species resembling a penny bun in shape and colour, and supported on a stout stem covered with minute raised lines forming a delicate network on the upper portion.

987.—**Boletus calopus** Fr.

S.W.—Haigh, near Barnsley (Nat., Oct. '82). Bingley (Lees' Fl.) Goitstock, under beech. Royal Wood, Scammonden (A Clarke). In woods.

988. **Boletus crassus** Mass.

N.E.—Scarboro'. Under trees in pastures. Resembling *B. edulis* superficially, but distinguished by the absence of a network of raised lines on the very stout stem, and in the flesh changing from white to primrose-yellow when cut.

989.—**Boletus satanas** Lenz. Poisonous.

N.E.—Raincliffe Wood, Scarboro'.

N.W.—Helmsley (*Nat., Sep. '84).

S.W.—Huddersfield (F.F., '95). In mixed woods.

A very beautiful fungus with a whitish pileus, blood-red pores, and a stout, orange stem covered upward with a network of blood-red raised lines forming a network.

990.—**Boletus luridus** Schæff. Poisonous.

S.W.—Hx. 1788. (Bolton, Tab. 85). Frequent; recorded for all the county divisions excepting N.W.

Flesh yellowish, but instantly changes to a deep blue when cut or broken. This changing of the flesh to a blue colour when broken and exposed to the air is possessed in a more or less marked degree by many species of *Boletus*, and depends on the presence of two distinct substances in the flesh of the fungus; one of these is a resinous substance that becomes blue in contact with ozone; the other is a substance soluble in water, which concentrates or ozonises the oxygen of the air, and then combines with the resinous substance to which it gives up its oxygen in the form of ozone, the result being a blue colour.

991. **Boletus purpureus** Fr.

S.W.—Heaton Woods [near Bradford] (Lees' Fl.).

992.—**Boletus rubinus** W.G.Sm.

N.E.—Scarboro', under trees on the racecourse.

Mid W.—Bolton Woods (Nat., Feb. '86).

S.W.—Heptonstall (Fl. Hx.).

The only *Boletus* having the tubes red throughout their entire length.

993.—**Boletus felleus** Bull. Poisonous.

S.W.—Frequent; records many.

N.E.—Scarboro'. Mulgrave (F.F., 1900). Castle Howard (F.F., '92). Rievaulx; Helmsley (F.F., '03).

S.E.—Escrick (F.F., '96).

Mid W.—Bolton Woods (Fl. Skipt.).

994.—**Boletus laricinus** Berk.

N.E.—Scarboro'. (Tr. ix.). Castle Howard (F.F., '92). Helmsley (F.F., '03).

S.E.—Bqynton (W.W.S.).

S.W.—Greenfield (Lees' Fl.). Birdwell (F.F., '97.)

Mid W.—Church Fenton and Wetherby (Lees' Fl.). Giggleswick and Clapham (Nat., Sep. '91). Woodhall Bridge (F.F., '98). Grassington (Exc. 1900.)

On the ground, principally in larch woods.

995. **Boletus viscidus** L.

N.E.—Scarboro', under larches.

S.W.—Melton Wood (F.F., '01).

996. **Boletus scaber** Fr. Edible.

Common in woods. Distribution general.

997. **Boletus versipellis** Fr.

N.E.—Scarboro'. Among heather.

S.W.—Bingley Woods (Lees' Fl.). Nab Wood (Nat., Sep. '91).

Mid W.—Harewood (F.F., '88).

S.E.—Blackwood (F.F., '96).

998. **Boletus alutarius** Fr.

N.E.—Scarboro'. In a pasture.

S.E.—Pocklington (F.F., '93).

S.W.—Hardcastle, Hebden Bridge (Nat., June '94).

999. **Boletus porphyrosporus** Fr.

S.W.—"Woodhouse Wood," Hx., 1788 (Bolton, Tab. 86—*B. procerus*). Has been met with in 11 or 12 mixed woods, sparingly, in the neighbourhoods of Hx. and Hebden Bridge (Fl. Hx.). Denby Dale (F.F., '95). Ravensthorpe (H. Parkinson).

N.E.—Pickering (Nat., Dec. '92).

S.E.—Pocklington (F.F., '93).

N.W.—Healey near Masham.

STROBILOMYCES Berk.

1000. **Strobilomyces strobilaceus** Berk.

S.W.—Farnley Tyas, and in a wood between Elland and Brighouse (Nat., Dec. '91). Round Wood, Dalton, Huddersfield (A. Clarke). Pecket Wood, Hebden Bridge, and North Dean Wood (Nat., June '94). Rare, but has been met with sparingly in the two latter woods several seasons since 1894.

S.E.—Pocklington (F.F., '93).

N.E.—Arncliffe Woods (F.F., '94).

FISTULINA Bull.

1001. **Fistulina hepatica** Fr.

S.W.—"In an hollow cavity in the stock of a living oak tree, in the Shroggs, Ovenden, near Hx., 1785" (Bolton, Tab. 79). Not uncommon. Distribution general.

On trunks of living trees, more especially the oak in this country, but it has also occurred on hornbeam and beech. A wound parasite, the sporophores appearing for many years in succession at the same spot. Popularly known as the beef-steak fungus on account of its "flesh" resembling a beef-steak or between that and liver in colour and substance when cut. It grows in thick flaps, and sometimes attains a large size, one specimen is recorded as weighing nineteen pounds. Edible, but rather coarse, and not of a particularly pleasant flavour.

POLYPOREÆ.

POLYPORUS Mich.

1002. **Polyporus lentus** Berk.

S.W.—Roche Abbey Valley (Lees' Fl.).

1003. **Polyporus brumalis** Fr.

N.E.—Scarboro'. On fallen branches.

Mid W.—Bolton Woods (Nat., Sep. '91). Stainer Wd.

S.E.—Escrick (F.F., '96).

1004. **Polyporus fuscidulus** Fr.

S.W.—"In North Dean, near Halifax; a rare species" (Bolton, Tab. 170).

N.E.—Helmsley (F.F., '03). On chips.

1005. **Polyporus leptocephalus** Fr.

S.E.—Pond Wood, Boynton (W.W.S.).

1006. **Polyporus Schweinitzii** Fr.

Mid W.—Farnley Wood, near Otley (Lees' Fl.).

N.E.—Scarboro'. On stumps. Closely resembling *P. hirsutus*, but distinguished by the distinct stem.

1007. **Polyporus rufescens** Fr.

N.E.—Scarboro', on stumps. Castle Howard (F.F., '92).

S.W.—Owston (F.F., '99).

S.E.—Edlington (T. Gibbs).

1008. **Polyporus squamosus** (Huds.) Fr.

S.W.—" On ash tree, Skircoat, Hx., July 1787 " (Bolton, Tab. 77). On trunks and stumps, chiefly ash. Very common. Distribution general.

1009. **Polyporus melanopus** Fr.

N.E.—Scarboro'. On the ground, but growing from buried roots, chips, etc.

1010. **Polyporus Rostkovii** Fr.

S.W.—On stumps, North Dean Wood (Nat., June '94) Elland Park Wood (Fl., Hx.). Huddersfield.

N.W.—Masham.

N.E.—Egton Bridge (F.F., '02).

1011. **Polyporus picipes** Fr.

N.E.—Scarboro', on willow trunk.

1012. **Polyporus varius** Fr.

S.W.—" On the stump of an elder tree, near Shibden Hall, 1791 " (Bolton, Tab. 168). Sutton (F.F., '99).

N.E.—Scarboro'. Helmsley (*Nat., Sep. '84) etc. Mulgrave Woods (F.F., 1900)

Mid W.—Bolton Woods (Lees' Fl.). On dead birch, Stainer Wood, near Selby (Nat., Ap. '03).

N.W.—Quarry Gill Wood, etc., Masham (Nat., Jan. '92).

S.E.—Swan Island, Hornsea Mere (A. R. Warnes). On trunks and stumps, chiefly ash.

1013. **Polyporus elegans** Fr.

S.W.—" On the stump of a fallen willow near the Calder, below Woodhouse (Hx.), 1787 " (Bolton, Tab. 83).

N.E.—Scarboro'. Mulgrave Woods (F.F., 1900).

N.W.—Masham (Nat., May '03).

On trunks and stumps, mostly birch.

Var. **nummularius** Fr.

Mid W.—Studley Royal (F.F., '81).

S.E.—Sledmere (W.W.S.).

1014. **Polyporus petaloides** Fr.

N.W.—Masham, on old stump (Nat., May '03)

1015. **Polyporus umbellatus** Fr.

S.W.—Eller Carr, Cullingworth, on old stump.

1016. **Polyporus frondosus** Fr.

S.W.—Howden Rough, Cullingworth. On oak stump.

1017. **Polyporus intybaceus** Fr.

N.E.—Scarboro'. On trunks and stumps.

Mid W.—Bramhope (F.F., '88).

S.W.—Shipley Glen (Lees' Fl.). Huddersfield (F.F.,'95).

S.E.—Escrick (F.F., '96).

1018. **Polyporus giganteus** Fr.

S.W.—"Among the decaying fragments of a decayed elm root, Hx. Aug. 1786" (Bolton, Tab. 76)

Frequent on elm and other stumps and roots.

Recorded for all the county divisions. Distinguished from allied species by the hymenium becoming dark when bruised.

1019.—**Polyporus sulphureus** Fr.

S.W.—"Most commonly on living wood, in some cavity occasioned by the lopping of a branch, or some other accident. Shibden Hall, Hx. 1786" (Bolton, Tab. 75).

Frequent on the trunks of living trees of many kinds.

Recorded for all the county divisions.

An elegant fungus but a destructive parasite.

1020. **Polyporus alligatus** Fr.

S.E.—Pond Wood, Boynton (W.W.S.).

S.W.—Potridings Wood, on fallen trunk (F.F., 1901).

1021. **Polyporus heteroclitus** (Bolton) Fr.

S.W.—"On the ground under oak trees, Fixby Hall" (Bolton, Tab. 164). Probably growing from decaying stump covered with soil.

1022. **Polyporus salignus** Fr.

S.W.—"On the root of a fallen poplar at Copley Hall, near Hx. 1788" (Bolton, Tab. 78).

N.E.—Scarboro', on willow. Mulgrave (F.F., 1900).

1023. **Polyporus spongia** Fr.

N.E.—Castle Howard and Welham Park (F.F., '92).

1024. **Polyporus dryadeus** Fr.

S.W.—On stumps at Rastrick and Almondbury (Hud. Bot. Soc). Stainboro' (F.F., '97).

Mid W.—Studley Royal (F.F., '81). North Deighton; Bolton Bridge; and Leeds District (Lees' Fl.).

N.E.—Scarboro', at the base of living oak.

One of the largest of the *Polyporeæ*, notwithstanding being an annual. Drops of water are constantly being exuded from the growing margin of the pileus

1025. **Polyporus hispidus** Fr.

S.W.—"Near Bradford on one of the trunks of a remarkable tree called the Four-Ashes, Nov. 1791" (Bolton, Tab. 161).

Common on the trunks of living trees, chiefly ash. Distribution general. A very destructive parasite. The hymenium exudes water, which drops away in considerable quantities. Every part of the fungus contains a considerable amount of a yellow substance that has been named "fungus gamboge" by Zopf. When extracted by alcohol it produces a beautiful yellow colour.

1026. **Polyporus cuticularis** Fr.

Mid W.—Hawksworth Springs (Lees' Fl.).

N.E.—Scarboro'. Somewhat resembling *P. hispidus*, but differing, among other points, in the absence of the yellow colouring matter.

1027. **Polyporus quercinus** Pers.

N.E.—Castle Howard (F.F., '92). On dead oak stumps.

1028. **Polyporus crispus** Fr.

N.E.—Rievaulx (F.F., '03). On old stumps.

1029. **Polyporus nidulans** Fr.

S.W.—Sutton (F.F., '99). On fallen trunks.

N.E.—Helmsley (F.F., '03). On fallen branches.

1030. **Polyporus mollis** Fr.

N.E.—Scarboro'. On dead pine trunks.

S.W.—Potridings Wood (F.F., '01).

1031. **Polyporus destructor** Fr.

N.E.—Scarboro' ('Nat.' Jy. '81).

S.W.—On timber, Liversedge railway station (Nat. Sep.'91).

S.E.—Escrick (F.F., '96).

On worked wood, which it destroys by causing it to rot and crumble in the same manner as when attacked by "dry rot" = *Merulius lacrymans*.

1032. **Polyporus betulinus** (Bull.) Fr.

S.W.—On birch trees in Shackleton Wood near Heptonstall (Bolton, Tab. 159). Only too common on birch trees. Distribution general. On living birch, which it finally kills. A wound parasite, gaining an entrance through wounds made by insects, broken branches, etc. When once in the trunk the mycelium of the fungus spreads rapidly and the sporophores, often in considerable numbers, burst through the bark and develope on the surface.

1033. **Polyporus fumosus** Fr.

S.W.—Edlington wood (F.F., '91). North Dean Wood (Nat. Sep. '92). Hebden Bridge (Fl. Hx). Goitstock. Ravensthorpe (H. Parkinson) On fallen trunks.

N.E.—Castle Howard (F.F., '92). Scarboro', on dead stumps.

N.W.—Masham ('Nat.' Jan. '02).

1034. **Polyporus adustus** Fr.

Mid W.—Studley Royal (F.F., '81). Boston Spa (Tr. ix). Bolton Woods (Lees' Fl.). Bramham; Harewood (F.F.,'88). Ling Ghyll (Nat. May '91).

N.E.—Scarboro'. Castle Howard (F.F., '92). Helmsley (F.F., '03).

S.W.—Ovenden ('Nat.' Sep. '92). Notton (F.F., '97). Fixby (Fl. Hx.). Campsall (F.F., '99). Wharncliffe (*Nat., Sep. '03). On tree stumps.

1035. **Polyporus epileucus** Fr.

S.E.—Everingham (F.F., '93).

1036. **Polyporus chioneus** Fr.

Mid W.—Horton-in-Ribblesdale ('Nat.' Jy. '81). Bramham and Harewood (F.F., '88).

N.E.—Scarboro' ('Nat.', Jy. '81). Castle Howard (F.F.'92). Cloughton (Nat. Jan. '92). Arncliffe (F.F., '94). Mulgrave Woods (F.F., 1900). Helmsley and Rievaulx (F.F. '03).

S.W.—Edlington Wood (F.F., '91). Sutton and Campsall (F.F., '99). Hardcastle (Fl. Hx.). Melton, etc. (F.F., '01).

On dead trunks and stumps; persistently pure white.

1037. **Polyporus cæsius** Fr.

N.E.—Scarboro'. Mulgrave (F.F. '02). Rievaulx (F.F.'03).

Mid W.—Studley Royal (F.F. '81). On dead pine wood. Pure white, but changing to blue when bruised.

1038. **Polyporus spumeus** Fr.

S.W.—Roche Abbey Valley (Lees' Fl.).

Mid. W.—Malham, on trunks of trees (Lees' Fl.).

1039. **Polyporus fragilis** Fr.

S.W.—Notton and Stainboro' (F.F. '97).

N.E.—Scarboro'. Egton Bridge (F.F. '02). On dead pine wood. Pure white, changing to foxy when bruised.

1040. **Polyporus adiposus** B. & Br.

N.E.—Scarboro' ('Nat.', Jy. '81). Mulgrave (F.F., 1900).

S.E.—Boynton (W.W.S.). South Cave (A. R. Warnes).

S.W.—Ovenden ('Nat.', Sep. '92). Stainboro' (F.F., '97).

N.W.—Masham, on humus (Nat., Jan. '02).

1041. **Polyporus armeniacus** Berk.

S.E.—On bark of fir log (W.W.S.).

S.W.—Near Hebden Bridge. Potridings Wood (F.F. '01).

N.E.—Scarboro'. On dead wood. Effused, thin, pure white when fresh, changing to cinnamon when dry.

POLYSTICTUS. Fr.

1042. **Polystictus perennis** Fr.

S.W.—"Robin Hood's Scar, Southowram, near Hx. Sep. 1784" (Bolton, Tab. 87). Shipley Glen (Lees' Fl.). Hebden

Bridge, and Luddenden Dean (Fl. Hx.). Potridings Wood. Wyming Brook, near Sheffield.

S.E.—Skipwith ('Nat.', Dec.,'78). Market Weighton (*Nat., Oct. '80). Blackwood (F.F., '84). Allerthorpe (F.F., '93).

N.E.—Scarboro'. On the ground under beeches, etc.

Mid. W.—Hambleton Hough, near Selby.

1043. **Polystictus cinnamomeus** (Jacq.).

S.W.—On sandy ground, Luddenden Dean (Fl. Hx.).

1044. **Polystictus versicolor** (Huds.).

S.W.—Hx. 1775 (Bolton's Cat. n. 458; 1788 Hist. Fung. Tab. 81).

Very common on dead stumps, trunks and branches of many kinds of forest trees. Extremely variable in form and colour; sometimes almost white.

1045. **Polystictus radiatus** (Sow.).

S.W.—Hebden Bridge ('Nat.', Sep. '92).

Mid W.—Bishops' Wood (F.F., '96).

N.W.—Masham ('Nat.', Jan. '02). On alder.

1046. **Polystictus hirsutus** Fr.

S.W.—Hx., on wood in dye-works (Nat., June '94). Ashday, Southowram (Fl. Hx.). Melton and Potridings Woods (F.F., '01). Ravensthorpe (H. Parkinson).

N.E.—Scarboro'. Mulgrave Woods (F.F., 1900). Helmsley (F.F., '03). On trunks.

N.W.—Masham ('Nat.', Jan. '02).

1047. **Polystictus velutinus** Fr.

S.E.—Skipwith ('Nat.', Oct. '78).

N.E.—Scarboro' ('Nat.', July '81). On trunks.

S.W.—Roche Abbey (Lees' Fl.). Hardcastle (Fl. Hx.).

Mid W.—Church Fenton and Wetherby, on twigs (Lees' Fl.). Stainer Wood, near Selby, 1902.

1048. **Polystictus abietinus** Fr.

Frequent; has been several times recorded for each county division except N.W.

On decaying trunks of coniferous trees.

FOMES Fr.

1049. **Fomes lucidus** Fr.

N.E.—Scarboro'. On elm trunks.

S.W.—Shelley (A. Clarke).

Very variable in form, sometimes with a distinct stem, at others quite stemless, but never attached by a broad base as in *F. applanatus*. Pileus shining as if varnished.

1050. **Fomes ulmarius** Fr.

S.W.—Huddersfield (H.B.S.). Roche Abbey (Lees' Fl.). Melton and Potridings Woods (F.F. '01).

N.E.—Scarboro'. Rievaulx (F.F. '03).

On old elm trunks.

1051. **Fomes populinus** Fr.

S.W.—Hewenden nr. Cullingworth. On poplar trunks.

1052. **Fomes connatus** Fr.

N.E.—Scarboro'. On old trunks. *Poria obducens* is only a resupinate form of this.

1053. **Fomes roseus** Fr.

S.W.—Hx., on worked wood in a cellar (Fl. Hx.).

1054. **Fomes fomentarius** Fr.

S.W.—Rawcliffe (Lees' Fl.). Huddersfield (F.F., '95). Hebden Bridge (Fl. Hx.). Sutton (F.F., '99).

Mid W.—Meanwood (Lees' Fl.). East Keswick (F.F., '98).

N.E.—Helmsley. Egton (F.F. '02). Mulgrave (F.F., 1900).

S.E.—Hornsea (Hull S. & F.N.C.).

N.W.—Masham (Nat., Jan. '02). Swinton (Nat., May '03).

On tree stumps and trunks.

1055. **Fomes igniarius** (Huds.).

S.W.—Hx. 1775 (Bolton's Cat. n. 460). "On the stock of a cherry tree, Southowram, near Hx. 1788" (Bolton, Tab. 80; and an unpublished Tab., 203, in Brit. Mus. Nat. Hist. coll. n. 1580). On various trees, not common, Keighley (Lees' Fl.). Ovenden (Fl. Hx.) Cadeby and Melton (F.F., '01).

N.E.—Bulmer (Tr. iv.) Helmsley and Rievaulx (F.F., '03).

N.W.—Sole Beck Gill near Masham (Nat., May '03).

Mid W.—Stainer Wood, near Selby.

On trunks of various trees.

1056. **Fomes nigricans** Fr.

N.W.—Helmsley 1900 (H. Slater). On dead birch.

1057. **Fomes salicinus** Fr. "

N.E.—Near Thirsk (*'Nat.', Nov. '82). Scarboro'.

Mid W.—By Myles Hill Beck, Meanwood, and Church Fenton (Lees' Fl.). On old willow trunks, by streams.

1058. **Fomes fraxineus** Fr.

S.W.—Wentbridge ('Nat.', Aug. '77). On old ash trunk.

1059. **Fomes annosus** Fr.

Common. Distribution general. A most destructive tree parasite; preys chiefly upon conifers.

1060. **Fomes applanatus** (Wallr.).

S.W.—Seven Arches, near Saltaire (Lees' Fl.).

N.E.—Scarboro'. Egton Bridge (F.F., '02).

N.W.—Masham, spreading extensively over an old trunk in saw-mill yard ('Nat.', Jan. '02). On tree stumps and trunks.

1061. **Fomes conchatus** Fr.

N.E.—Scarboro.' Bulmer (Tr. iv). On willow trunks.

1062. **Fomes ribis** Fr.

N.E.—Scarboro'. On old gooseberry bushes.

1063. **Fomes resupinatus** (Bolton) Mass.

S.W.—"On dry decayed hazel bough near Burks Hall (Hx.) Feb. 1790. This species is nearly related to the *Boletus cryptarum* of Bulliard, *Texte*, p. 350, No. 31, and probably may be the same species" (Bolton, Tab. 165). Pecket Wood, Hebden Bridge (Fl. Hx.). Stainboro'. (F.F., '97).

N.E.—Scarboro'., on old trunks.

1064. **Fomes ferruginosus** (Fr.) Mass. (*Boletus cryptarum* Bull.).

N.E.—Scarboro' ('Nat'., July '81). Mulgrave (F.F., 1900). Egton Bridge (F.F., '02). Helmsley; Rievaulx (F.F., '03).

Mid. W.—Ingleton (Lees' Fl.). Harewood (F.F., '98). Stainer Wood near Selby 1903. Grassington (Exc. 1900).

S.W.—Edlington (F.F., '91). Owston ('99). Melton ('01).

S.E.—Pocklington (F.F., '93).

On trunks and branches. Usually effused like the previous sp., then may be taken for a *Poria* on superficial examination. The stratose arrangement of pores, however, reveals its true character.

PORIA Pers.

1065. **Poria vaporaria** Fr.

Very common on rotting branches in moist woods everywhere.

1066. **Poria mollusca** Fr.

N.E.—Scarboro.' On rotten wood.

S.W.—Steeton. On decaying wood (Lees' Fl.).

1067. **Poria vulgaris** Fr.

S.W.—Hx. 1790 (Bolton, Tab. 166, figs. A & B). Roche Abbey Valley (Lees' Fl.). Gomersall. Owston (F.F., '99).

N.E.—Scarboro' (Tr. iv). Castle Howard (F.F., '92) Mulgrave Woods (F.F., 1900). Stokesley (Exc., '99). On dead branches, etc.

Mid W.—Studley Royal and Harrogate (F.F., '81).

1068. **Poria medulla-panis** Pers.

S.W.—"On the surface of wood or bark . . . . about Halifax not unfrequently" (Bolton, Tab, 167. fig. 2). Green Hurst near Hebden (Fl. Hx.). Sutton near Askern (F.F., '99).

N.E.—Scarboro'. On rotten wood.

S.E.—Pocklington (F.F., '93).

Mid W.—Stainer Wood near Selby ('Nat.', April 1903).

N.W.—Masham ('Nat.', June 1902). Bowes (*'Nat.', Sep. '03).

1069. **Poria vitrea** Pers.

N.E.—Scarboro'. On rotten pine wood.

1070. **Poria Hibernica** B. & Br.

N.E. Scarboro'. Mulgrave. On dead pine wood.

1071. **Poria Gordoniensis** B. & Br.

S.W.—Doncaster. On fir, rare (Lees' Fl.).

1072. **Poria blepharistoma** B. & Br.

Frequent on wood far advanced in decay; also on moist leaf mould. Recorded for all county divisions.

1073. **Poria Vaillantii** Fr.

S.E.—Everingham (F.F., '93).

S.W.—Elland Park Wood, among dead leaves (Fl. Hx.).

1074. **Poria callosa** Fr.

N.W.—Masham ('Nat.', Jan. '02). On rotten wood.

1075. **Poria mucida** Fr.

N.E.—Mulgrave Woods (F.F., '02).

1076. **Poria obducens** Pers.

N.E.—Mulgrave Woods (F.F., '94).

S.W.—Potridings Wood (F.F., '01).

N.W.—Masham ('Nat.', May '03). On rotten wood.

1077. **Poria viridans** (Berk.).

N.E.—Scarboro' (Tr. iv.). On rotten wood.

1078. **Poria terrestris** Fr.

N.E.—Scarboro'. Running over dead wood and passing on to naked earth. Egton Bridge and Limber Wood (F.F., '02).

S.W.—Chellow Dene, near Bradford ('Nat.', Sep. '91). Stainboro' (F.F., '97). Norland (Fl. Hx.). Huddersfield. On bare, damp, shaded ground.

1079. **Poria sanguinolenta** (A. & S.).

Frequent on dead branches, rotting rails, planks, etc. Recorded for all the county divisions. Pure white but instantly becoming blood-red when bruised.

1080. **Poria micans** Fr.

N.E.—Castle Howard (F.F., '92).

S.W.—Hebden Bridge ('Nat.', June '94). North Dean (Fl. Hx.).

1081. **Poria Læstadii** Fr. and Berk.

N.E.—Scarboro'. On the underside of deal bench in J. Woodall's greenhouse.

1082. **Poria nitida** A. & S.

N.E.—Scarboro'. On rotten wood.

1083. **Poria violacea** Fr.

N.E.—Scarboro'. On rotten fir trunk.

1084. **Poria purpurea** Fr.

N.E.—Scarboro'. On decaying willows.

TRAMETES. Fr.

1085. **Trametes gibbosa** Fr.

N.E.—Scarboro'. On stumps.

1086. **Trametes suaveolens** Fr.

MID W.—Cawood; Selby (Lees' Fl.).

N.E.—Ganton. Rievaulx (F.F., '03). On willows, etc.

1087. **Trametes odora** Fr.

S.W.—"On old sallow trees near Shibden Hall (Hx.), 1791. When dry it has a smell like aniseeds" (Bolton, Tab. 162 = *Boletus suberosus*).

1088. **Trametes inodora** Fr.

S.W.—Luddenden (Hx.), on stump ('Nat.', June '94).

1089. **Trametes serpens** Fr.

N.E.—Scarboro'. On oak wood.

N.W.—Masham ('Nat.', Jan. '02).

1090. **Trametes mollis** Fr.

N.E.—Scarboro'. On dead beech branches.

MID W.—Harewood (F.F., '98).

S.W.—Elland Wood, on oak ('Nat.' Sep. '92).

DÆDALEA. Pers.

1091. **Dædalea quercina** (L).

S.W.—Halifax 1788 (Bolton, Tab. 73).

Not uncommon on oak stumps and trunks. Often recorded for all the county divisions, except N.W.

1092. **Dædalea confragosa** Pers.

S.W.—"On old trees near Fixby Hall, 1790" (Bolton, Tab. 169). Huddersfield (F.F., '95).

MID W.—Askham Bog, abundant on willow (Tr. iv.). Church Fenton (Lees' Fl.).

N.E.—Helmsley and Rievaulx (F.F., '03).

1093. **Dædalea unicolor** (Bull) Fr.

S.W.—Hx. 1790 (Bolton, Tab. 163). Huddersfield (H.B.S.). Ovenden; Elland; Hebden Bridge (Fl. Hx.). Saltaire (Lees' Fl.). Askern ('Nat'., Oct. '93).

MID W.—Leeds (Lees' Fl.). Bolton Woods (Fl. Skipt.).

N.E.—Scarboro'. Mulgrave Woods (F.F., '02).

N.W.—Masham (*'Nat.', Oct. '91).

On decaying stumps, trunks, posts, rails, etc.

1094. **Dædalea latissima** Fr.

N.E.—Scarboro'. Mulgrave Woods (F.F., 1900).

S.W.—Potridings Wood (F.F., '01). On dead branches.

N.W.—Swinton and Masham. On dead wood.

1095. **Dædalea ferruginea** Schum.

S.W.—Maltby Wood (T. Gibbs).

MERULIUS. Hall.

1096. **Merulius lacrymans** Fr.

Only too common and widely distributed. Confines itself almost entirely to worked wood in or about buildings, to which it is very destructive. Rarely found in a wild state; it was met with in Mulgrave Woods 1900; and Mr. Cheesman found it in Stainer Wood near Selby, 1902.

1097. **Merulius Carmichaelianus** Berk,

N.E.—Scarboro'. On dead bark.

1098. **Merulius serpens** Tode.

N.E.—Scarboro'. On rotten pine wood.

S.W.—Elland Wood, on dead trunk ('Nat.', June '94).

1099. **Merulius molluscus** Fr.

N.E.—Scarboro'. On dead wood.

1100. **Merulius tremellosus** Schrad.

S.E.—Flamboro' Head. On rotten stump (G.M).

S.W.—Elland Wood, on dead ash (Fl. Hx.).

1101. **Merulius corium** Fr.

S.W.—Saltaire ('Nat.', July '81). Horbury; North Dean Wood (Lees' Fl.). Sutton (F.F., '99).

Mid W.—Esholt ('Nat.', July '81). Leeds, and Bolton Woods (Lees' Fl.). Holden Wood near Silsden (Fl. Skipt.).

S.E.—Blackwood (F.F., '84). On dead trunks.

N.E.—Bulmer and Scarboro'. On dead branches.

1102. **Merulius aurantiacus** Klotzsch.

N.E.—Scarboro'. On fallen trunk.

S.W.—Edlington Wood (F.F., '91). On the under surface of log lying among grass. Erroneously recorded as *M. aureus* in 'Nat.', Nov. '91.

HYDNACEÆ.

HYDNUM.

1103. **Hydnum imbricatum** L.

N.E.—Scarboro'. In pine wood on Seamer Moor.

1104. **Hydnum repandum** L.

S.W.—"North Dean, Hx." (Bolton's Cat. n. 463: and Tab. 88. under *H. imbricatum*). On the ground in woods; sometimes in broken circles. Common. Recorded for all the county divisions. Edible, but pungent.

Var. **rufescens** Pers.

S.W.—"In abundance in Lee Bank Shroggs (Hx.) Sep. 1786" (Bolton, Tab. 89). Hebden Bridge ('Nat.' June '94).

1105. **Hydnum fuligineo-album** Schmidt.

S.W.—Hebden Bridge, in woodside pasture.

First British records. 'Nat.' Dec. 1892; Grev. xxi. p. 70.

1106. **Hydnum ferrugineum** Fr.

S.E.—Pond Wood, Boynton (W.W.S.).

S.W.—Doncaster (Lees' Fl.). In fir woods.

1107. **Hydnum zonatum** Batsch.

N.E.—Littlebeck (W.W.S.).

1108. **Hydnum auriscalpium** L.

S.W.—"Grows under fir trees, in plantations about Halifax in Aug. and Sep." (Bolton, Tab. 90). The drawing shows the specimens as growing on fir cones.

S.E.—Grindale, on fir cones (W.W.S.).

N.E.—Cloughton, on fir cones ('Nat.' Jan. '92).

1109. **Hydnum coralloides** Scop.

S.W.—On wood bridge, Ravensthorpe (C. Halliley).

1110.—**Hydnum diversidens** Fr.

N.E.—Scarboro'. On beech stump.

1111. **Hydnum ochraceum** Pers.

S.W.—On old log, Holmfield, Ovenden (Fl. Hx.).

1112. **Hydnum squalinum** Fr.

S.W.—"On fallen branches in woods about Halifax" (Bolton, Tab. 74), Not collected during recent years;

admitted on the authority of the figures of Ray and Bolton (Mass. Brit. Fung. Fl. I. p. 159).

1113. **Hydnum membranaceum** Bull.

S.E.—Pond Wood, Boynton (W.W.S.).

1114. **Hydnum Weinmanni** Fr.

N.E.—Scarboro'. On rotten wood.

1115. **Hydnum aureum** Fr.

N.E.—Scarboro'. On dead branch.

1116. **Hydnum alutaceum** Fr.

N.E.—Scarboro' ('Nat.' July '81). Helmsley (F.F., '03). Mulgrave Woods (F.F., 1900). On dead branches.

Mid W.—Horn-bank Wood, Wetherby (Lees' Fl.).

S.E.—Pond Wood, Boynton (W.W.S.).

S.W.—Edlington Wood (F.F.'91). Potridings Wd. (F.F.'01).

N.W.—Burn Valley, Masham, on pine rail (Nat., May '03).

1117. **Hydnum viride** Fr.

N.E.—Scarboro'. Mulgrave Woods (F.F., 1900).

S.W.—Hardcastle, near Hebden Bridge ('Nat.', June '94). Sutton and Owston (F.F., '99). Potridings Wood (F.F., '01).

1118. **Hydnum nodulosum** Fr.

S.W.—Campsall (F.F., '99). Potridings Wood (F.F., '01).

1119. **Hydnum Stevensoni** B. & Br.

S.W.—Norland, on rotten wood in stackgarth (Fl. Hx.).

1120. **Hydnum niveum** Pers.

N.E.—Scarboro' ('Nat.' July '81). Mulgrave Woods (F.F., 1900). Helmsley and Rievaulx (F.F., '03).

S.W.—Bingley Woods ('Nat.', Sep. '91). Hugsett (F.F., '97). Sutton; Campsall (F.F.,'99). Potridings Wood (F.F.,'01).

S.E.—Everingham (F.F., '93). On dead wood.

N.W.—Masham ('Nat.', Jan. '02).

1121. **Hydnum farinaceum** Pers.

N.E.—Scarboro' ('Nat.', July '81). Mulgrave (F.F., '94).

S.W.—Bingley (Lees' Fl.). Hardcastle, etc. (Fl., Hx.).

Mid W.—On logs, Selby, 1902.

1122. **Hydnum argutum** Fr.

Mid W.—Hambleton (Lees' Fl.). Harewood (F.F., '98).

S.W.—Campsall (F.F. '99).

N.W.—Masham ('Nat.', Jan. '02). On dead wood.

CALDESIELLA. Sacc.

1123. **Caldesiella ferruginosa** (Fr.).

Mid W.—Harewood (F.F., '98).

N.E.—Scarboro', Welham Park (F.F., '92). Mulgrave Woods (F.F., 1900). On dead branches.

S.E.—Everingham (F.F., '93).

S.W.—North Dean Wood, on rotting stump (Fl. Hx.).

IRPEX. Fr.

1124. **Irpex pendulus** Fr.

N.E.—Scarboro'. On pine wood.

1125. **Irpex obliquus** Fr.

S.W.—"On the surface of decaying wood in damp houses, or in woods, Hx." (Bolton, Tab. 167, fig. 1).

N.E.—Scarboro'. On stump. Mulgrave (F.F., 1900).

1126. **Irpex deformis** Fr.

S.W.—Crag Vale, on dead wood ('Nat.', June '94).

Irpex fusco-violaceus Fr.

N.E.—Scarboro'. On fallen pine trunk. This is probably an extreme form, with much torn pores, of *Polystictus abietinus*.

RADULUM. Fr.

1127. **Radulum pendulum** Fr.

N.E.—Scarboro'. On dead birch branches.

1128. **Radulum orbiculare** Fr.

N.E.—Scarboro' ('Nat.', July '81).

S.E.—Boynton, on birch (W.W.S.). Escrick (F.F., '96).

S.W.—Cullingworth. On decaying birch.

1129. **Radulum quercinum** Fr.

N.E.—Scarboro'. Mulgrave. On dead oak branches.

1130. **Radulum epileucum** B. & Br.

S.W.—North Dean Wood, Hx. ('Nat.', June '94).

1131. **Radulum fagineum** Fr.

N.E.—Scarboro'. On dead beech branches.

PHLEBIA. Fr.

1132. **Phlebia merismoides** Fr.

Mid W.—Silsden; Bolton Woods (Fl. Skipt.).

S.W.—Edlington Wood (F.F., '91). North Dean Wood; Elland (Fl. Hx.). Goitstock. Ecclesall (T. Gibbs).

N.E.—Scarboro'. On dead trunks, logs, etc.

1133. **Phlebia radiata** Fr.

N.E.—Scarboro'. On dead trunk.

S.W.—Goitstock, on rotten branches.

1134. **Phlebia contorta** Fr.

S.W.—Shibden; Hardcastle (Fl. Hx.).

1135. **Phlebia vaga** Fr.

N.E.—Scarboro'. On dead trunks. Filey (* 'Nat.', July '03).

S.W.—Halifax, on wood in damp cellar kitchen; Hebden Bridge (Fl. Hx.). Hugsett (F.F., '97).

GRANDINIA Fr.

1136. **Grandinia granulosa** Fr.

N.E.—Scarboro'. Bulmer. Mulgrave Woods (F.F., 1900). Egton Bridge (F.F., '03). On decaying wood.

Mid W.—Church Fenton (Lees' Fl.).

S.W.—Sandal Beat (F.F., '91). Hugsett (F.F., '97). Sutton; Owston (F.F., '99). Melton, etc. (F.F., '01).

N.W.—Masham ('Nat.', Jan. '92).

1137. **Grandinia crustosa** Fr.

N.E.—Scarboro'. On pine wood.

ODONTIA Pers.

1138. **Odontia fimbriata** Pers.

N.E—Scarboro' ('Nat.', July '81).

Mid W.—Studley Royal (F.F., '81). On dead wood.

S.W.—Sutton; Campsall (F.F., '99). Potridings Wood (F.F., '01). Wharncliffe (* 'Nat.', Oct. '03).

N.W.—Masham. Bowes (* 'Nat.', Sep. '03).

KNIEFFIA Fr.

1139. **Knieffia setigera** Fr.

N.E.—Scarboro'. On dead wood.

THELEPHORACEÆ.

SOLENIA Hoffm.

1140. **Solenia maxima** Mass.

N.E.—Scarboro', Mulgrave (F.F., 1900). On wood.

1141.—**Solenia fasciculata** Pers.

[*Syn. S. candida* Hoffm.].

N.E.—Scarboro'. On dead wood. Distinguished among British species by its white colour and subglobose spores.

1142.—**Solenia anomala** Fr.

Var. **ochracea** Mass.

Mid W.—Studley Royal (F.F., '81). Near Silsden, on dead holly, &c. (Lees' Fl.). Bolton Woods (Fl. Skipt.).

S.W.—Elland Park Wood, on rotten wood (Fl. Hx.).

CRATERELLUS Fr.

1143. **Craterellus lutescens** Fr.

S.W.—"Ramsden Wood, Halifax 1786," rare, (Bolton, Tab. 105 f. 2).

1144. **Craterellus cornucopioides** Pers.

S.W.—Hx. 1775 (Bolt. Cat. n. 467). "In the shady parts of woods where the soil is dry, in the Shroggs, North Dean, &c., about Halifax (Bolton Tab. 103).

S.E.—Pond Wood, Boynton (W.W.S.).

N.E.—Bedale (G.M.). Arncliffe Wood (F.F., '94). Mulgrave, plentiful (F.F., 1900). Helmsley and Rievaulx (F.F., '03). On the ground.

Mid W.—Strid, Bolton Woods ('Nat.', Sep. '91).

One of the best of our edible fungi.

1145. **Craterellus sinuosus** Fr.

S.E.—Skipwith (Tr. ii.).

STEREUM Pers.

1146. **Stereum Sowerbei** Berk.

N.E.—Scarboro'. On the ground. A very beautiful species, funnel-shaped, pure white.

1147. **Stereum hirsutum** Fr.

S.W.—Hx. (Bolton, Tab. 82, figs. a.b.c.).

On dead trunks, branches, and worked wood. Is also a true parasite at times. Very common.

1148. **Stereum ochroleucum** Fr.

N.E.—Scarboro'. On bark of horse chestnut, &c., resembles a *Corticium* in habit.

S.W.—Hebden Bridge, on sycamore. Bingley.

1149. **Stereum purpureum** Pèts.

On trunks, stumps, branches, etc. Common. Many records for each county division.

1150. **Stereum sanguinolentum** Fr.

N.E.—Scarboro' ('Nat.', July '81). Helmsley (F.F., '03). Mulgrave Woods (F.F., 1900).

Records numerous for Mid W. and S.W.; none for S.E. or N.W. Frequent on pine and other wood.

1151. **Stereum rugosum** Fr.

N.E.—Castle Howard (Tr. iv.). Scarboro'. Mulgrave Woods (F.F., 1900). Egton Bridge (F.F., '02).

S.W.—Hebden Bridge, and Halifax (Fl. Hx.). Edlington Wood (F.F., '91). Huddersfield (F.F., '95). Hugsett (F.F., '97). Goitstock. Harden (Fl. Skipt).

S.E.—Blackwood (F.F., '96). Hessle (H.S. and F.N.C.) On trunks, etc. A parasite especially destructive to cherry laurel.

1152. **Stereum spadiceum** Fr.

S.W.—Rawcliffe ('Nat.', May '77). Hebden Bridge (Fl. Hx.). Sutton, etc. (F.F. '99). Melton, etc. (F.F. '01).

N.E.—Scarboro' ('Nat.', July '81). Arncliffe (F.F., '94). Mulgrave Woods (F.F., 1900). Helmsley (F.F., '03).

Mid W.—Carlton and Camblesforth (Lees' Fl.).

1153. **Stereum vorticosum** Fr.

S.W.—Hx. (Bolton, Tab. 82, figs. d. & e.).

1154. **Stereum frustulosum** Fr.

N.E.—Mulgrave Woods (F.F., 1900). On bark.

1155. **Stereum acerinum** Fr.

Mid W.—Thorparch, on maple (Lees' Fl.).

N.E.—Scarboro'. On trunks, etc. Also a parasite on living maple = *Acer campestris*.

CORTICIUM Fr.

1156. **Corticium porosum** B. & Curt.

N.E.—Scarboro'. On wood.

S.W.—Melton (F.F., '01). On fallen branches.

1157. **Corticium calceum** Fr.

N.E.—Scarboro' ('Nat.', July '81).

S.W.—Elland ('Nat.', June '94). North Dean (Fl. Hx.). Sutton and Campsall (F.F., '99). Melton (F.F., '01).

MID W.—Bolton Woods (Fl. Skipt.). Stainer Wood, Selby.

N.W.—Rokeby (F.F., '04).

On wood, resembling a coat of paint or whitewash.

1158. **Corticium scutellare** B. & Curt.

S.W.—On wood, Elland Park Wood ('Nat.', June '94).

1159. **Corticium lacteum** Fr.

N.E.—Scarboro'. On dry wood.

MID W.—Hawksworth, on dead tree (Lees' Fl.). Stainer Wood, Selby, on dead trunk.

S.W.—Elland Park Wood, on dead branches (Fl. Hx.).

S.E.—Cottingham, and Springhead, Hull (A. R. Warnes).

N.W.—Burn Valley, Masham, on wood ('Nat.', May '03).

1160. **Corticium confluens** Fr.

N.E.—Scarboro'. On dead wood.

1161. **Corticium arachnoideum** Berk.

N.E.—Scarboro'. Running over moss and dead leaves. Arncliffe Woods (F.F., '02).

S.W.—Luddenden Dean ('Nat.', Nov. '91). On moss and rotten wood. Sutton (F.F., '99). Melton (F.F., '01).

1162. **Corticium sambuci** Fr.

Common on elder tree stumps, trunks, and branches. Distribution general.

1163. **Corticium lacunosum** B. & Br.

N.E.—Scarboro'. On dead wood.

1164. **Corticium roseolum** Mass.

N.E.—Scarboro'. On old dry wood. Limber Wood, on decaying rail (F.F., '02).

1165. **Corticium anthochroum** (Pers.) Fr.

S.W.—Roche Abbey Valley (Lees' Fl.).

1166. **Corticium polygonium** Fr.

S.W.—Sutton (F.F., '99). On poplar bark.

1167. **Corticium sanguineum** Fr.

N.E.—Scarboro'. On a rotten plank.

S.W.—North Dean Wood, Hx. and Hebden Bridge ('Nat.', Sep. '92). Wharncliffe (*'Nat.', Oct. '03).

N.W.—Masham ('Nat.', Jan. '02). On dead branches. Rokeby and Brignall (F.F., '04).

Mid W.—Adel, on larch sticks (Lees' Fl.).

White, becoming blood-red when bruised.

1168. **Corticium Carlylei** Mass.

N.E.—Scarboro'. Mulgrave Woods (F.F., 1900).

S.W.—Sutton (F.F., '99). On oak bark.

1169. **Corticium cœruleum** Fr.

S.W.—"On wood under the firs at Burks Hall, near Hx., 1782" (Bolton, Tab. 108, p. 2). Swinefleet.

Mid W.—Church Fenton, on palings, etc. (Lees' Fl.).

N.E.—Castle Howard, on old gate post ('Nat.', June '80). Scarboro' (J. A. Wheldon). Phosphorescent, gleaming with a pale blue light at night.

N.W.—Rokeby (F.F., '04).

1170. **Corticium lividum** Pers.

N.E.—Scarboro'. On wood.

Mid W.—Church Fenton (Lees' Fl.). East Keswick.

1171. **Corticium comedens** Fr.

Frequent. Distribution general. Recorded for all the county divisions. On branches, more especially hazel, developing under the bark, which is eventually ruptured and thrown off. Often found on living hazel.

HYMENOCHÆTE Lév.

1172. **Hymenochæte rubiginosa** Lév.

N.E.—Castle Howard (Tr. iv.). Scarboro'. Mulgrave (F.F., 1900). Rievaulx (F.F., '03).

S.E.—Selby (Lees' Fl.).

MID W.—Ingleton (Lees' Fl.). Barden (H.T.S.). Near the Strid, Bolton Woods (J. E. Sutcliffe). On fallen trees.

N.W.—Masham ('Nat.', Jan. '02). On dead, dry branches.

1173. **Hymenochæte leonina** Berk. & Curt.

N.E.—Scarboro'. Mulgrave (F.F., 1900). On dry wood.

1174. **Hymenochæte corrugata** Lév.

N.E.—Scarboro' ('Nat.', Jy. '81). On dry wood. Northallerton, 1883 (J. A. Wheldon).

MID W.—Helks Wood, Ingleton (Lees' Fl.).

S.W.—Calverley Woods ('Nat.', Sep. '91).

1175. **Hymenochæte tabacina** Lév.

S.W.—Halifax, 1790. "Have seen it run upon the decaying shoots of the common woodbine to the length of two or three feet" (Bolton, Tab. 174). Rockley (F.F., '97).

N.E.—Scarboro'. On fallen elm trunk covering many square feet. Mulgrave, on fallen trunks (F.F., 1900).

MID W.—Bramham and Harewood (F.F., '88). Stainer Wood, near Selby, 1903.

N.W.—Rokeby (F.F., '04).

PENIOPHORA Cooke.

1176. **Peniophora quercina** Cke.

N.E.—Scarboro' ('Nat.', Jy. '81). Mulgrave Wds. (F.F., 1900).

MID W.—Studley Royal; Meanwood (F.F., '81). Harewood (F.F., '88). Stainer Wood, near Selby, 1902.

S.W.—Saltaire (Lees' Fl.). Bingley (Fl. Skipt.).

On trunks and branches, especially oak.

1177. **Peniophora gigantea** (Berk.) Mass.

N.E.—Scarboro'. On larch bark ('Nat.', Jy. '81).

S.W.—Hardcastle, on pine log (Fl. Hx.).

S.E.—Hessle, 1902, on dead log (Hull S. & F.N.C.).

1178. **Peniophora Crosslandi** Mass.

S.W.—Hardcastle, near Hebden Bridge. On bark and wood of fir. "Resembling *P. gigantea* in being soft and fleshy when growing and cartilaginous and separable from

the matrix when dry, but differing in the shorter cystidia and smaller spores. Patches 1-2 in. across (Grev. xxi. p. 7).

1179. **Peniophora rosea** (Berk.) Mass,

N.E.—Scarboro'. On dead branches ('Nat.', Jy. '81).

S.E.—Riccall, on wood in woodyard, 1903.

1180. **Peniophora incarnata** (Cke.) Mass.

N.E.—Scarboro', on dry wood ('Nat.', Jy. '81). Filey, on dead Ulex-stems (*'Nat.', Jy. '03).

Mid W.—Ingleton; Hawksworth; Selby (Lees' Fl.).

S.W.—Skircoat, on dead Ulex (Fl. Hx.).

1181. **Peniophora ochracea** (Fr.) Mass.

N.E.—Scarboro'. On bark. Mulgrave Wds. (F.F., 1900).

S.E.—Blackwood near Selby (F.F., '84).

S.W.—Shibden; Hebden Bridge, on ash bark (Fl. Hx.). Melton, on dead branch (F.F., '01).

1182. **Peniophora cinerea** (Berk.) Cke.

N.E.—Scarboro' ('Nat.', Jy. '81). Bulmer. Mulgrave Woods (F.F., 1900). Egton Bridge (F.F., '02).

S.W.—Nab Wood, Saltaire (Lees' Fl.). Sutton and Campsall (F.F., '99). Melton and Potridings Wds. (F.F., '01). Hebden Bridge (Fl. Hx.). On dead branches.

1183. **Peniophora velutina** (Berk.) Cke.

N.E.—Scarboro'. On wood ('Nat.', Jy. '81).

Mid W.—Bramhope (F.F., '88).

S.E.—Escrick, 1903. On dead wood.

1184. **Peniophora phyllophila** Mass.

N.E.—Scarboro'. On dead leaves.

1185. **Peniophora terrestris** Mass.

N.E.—Scarboro'. Running over dead twigs, leaves, moss, &c., and the naked ground.

CYPHELLA Fr.

1186. **Cyphella Pimii** Phil.

S.W.—Several places about Hebden Bridge, on damp, decaying stems of nettle, butter-bur, and other herbaceous plants (Fl. Hx.).

S.E.—Market Weighton (Exc. '97).

Mid W.—Harewood (F.F., '98).

N.E.—Stokesley (Exc. '99).

N.W.—Masham ('Nat.', Jan. '02). Rokeby (F.F., '04).

1187. **Cyphella capula** Fr.

Common on various decaying herbaceous stems in damp places. Recorded for all the county divisions.

1188. **Cyphella galeata** Fr.

N.E.—Scarboro'. On moss (*Hyp. scorpioides*).

1189. **Cyphella muscigena** Fr.

N.E.—Scarboro'. ('Nat.', Jy. '81).

S.W.—Steeton. On mossy wall (Lees' Fl.). Hardcastle, on moss (*Hyp. commutatum*), growing on wet shale (Exc. '04).

1190. **Cyphella albo-violascens** Karst. [*C. Curreyi* B. & Br.].

N.E.—Scarboro'. On bark ('Nat.', Jy. '81). Mulgrave Woods (F.F., 1900).

N.W.—Rokeby (F.F., '04).

Mid W.—Baildon Moor, on dead ferns, etc. (Lees' Fl.).

S.W.—Pecket Wood, Hebden Bridge, on dead fern-stems, twigs, etc. (Fl. Hx.). Potridings Wd., on chips (F.F., '01).

1191. **Cyphella villosa** Karst.

N.E.—Scarboro'. On dead sow-thistle. Mulgrave Woods (F.F., 1900).

Mid W.—Woodhall Bridge (F.F., '98). Bolton. Wds.

S.W.—Saltaire (Lee's Fl. under *Peziza villosa*). Hebden Bridge, and Elland Park Wood, on dead butter-bur, and on twig (Fl. Hx.).

N.W.—Masham. On dead branches ('Nat.', Jan. '02). Rokeby (F.F. '04).

1192. **Cyphella dochmiospora** B. & Br.

N.W.—Masham ('Nat.', Jan. '02).

1193. **Cyphella muscicola** Fr.

Mid W.—Bolton Woods. On moss ('Nat.', Sep. '91).

THELEPHORA Ehrh.

1194. **Thelephora anthocephala** Fr.

N.E.—Scarboro'. On the ground in woods ('Nat.', Jy. '81).

1195. **Thelephora caryophyllea** Pers.

N.E.—Raincliffe Wood, Scarboro'. On the ground. Arncliffe Woods (F.F., '94).

S.E.—Everingham (F.F., '93).

1196. **Thelephora palmata** Fr.

S.E.—Boynton (W.W.S.).

1197. **Thelephora terrestris** Ehrh.

N.E.—Castle Howard (Tr. iv.). Seamer Moor, Scarboro'. On the ground in pine woods.

Mid W.—Horsforth (Tr. ix.).

S.W.—Roche Abbey (Lees' Fl.). Hebden Bridge (Fl. Hx.).

1198. **Thelephora laciniata** Pers.

S.W.—"In a little plantation near Lee Bridge, Hx. Feb. 1790. Grows in damp situations, particularly under close plantations of larch and fir." (Bolton, Tab. 173).

Common. Recorded for all the county divisions. Running up young pines, on stumps, etc. Not a parasite but often very destructive to young conifers by growing up the stem and suffocating them.

1199. **Thelephora biennis** Fr.

S.W.—North Dean Wood, in spring ('Nat.', June '94).

1200. **Thelephora mollissima** Pers.

N.E.—Scarboro'. Running over twigs and leaves.

Mid W.—Airedale (Lees' Fl.).

CONIOPHORA Dc.

1201. **Coniophora olivacea** (Fr.) Mass.

N.E.—Raincliffe Wood, Scarboro'. On rotten pine.

Coniophora arida Karst.

N.E.—Scarboro' ('Nat.', Jy. '81). Bulmer. Limber Wood (F.F., '02). Mulgrave (F.F., 1900). On rotten pine wood.

S.W.—Hx. On rotting fragments of wood in plant-pot; on dead wood, Norland (Fl. Hx.).

1202. **Coniophora sulphurea** (Fr.) Mass.

N.E.—Scarboro'. Running over dead leaves.

S.W—Hardcastle and Pecket Wood, Hebden Bridge, on fallen trunk ('Nat.', June '94).

1203. **Coniophora membranacea** DC.

N.E.—Scarboro'. On old plank.

S.W.—Halifax. On wall, cellar-window-area (Fl. Hx.).

1204. **Coniophora umbrina** (Fr.) Mass.

N.E.—Mulgrave Woods, on dead branches (F.F., 1900).

1205. **Coniophora puteana** (Fr.) Mass.

N.E.—Scarboro'. On rotten bark.

Mid W.—Esholt. ('Nat.', Sep. '91).

S.W.—Sunwood, Lightcliffe. On bark and wood (Fl. Hx.). Owston (F.F., '99).

SOPPITTIELLA Mass.

1206. **Soppittiella sebacea** (Berk.) Mass.

N.E.—Scarboro'. ('Nat.', July '81). Stokesley (Exc. 1899).

Mulgrave (F.F., 1900). Egton Bridge (F.F., '02). Helmsley (F.F., '03).

S.W.—Edlington (F.F., '91). Apperley (Lees' Fl.). Hugsett (F.F., '97). Sutton and Owston (F.F., '99). Melton and Potridings Woods (F.F., '01). Wadsworth (Fl. Hx.).

S.E.—Pocklington (F.F., '93).

N.W.—Masham. On old rope laid on the ground.

Mid W.—Stainer Wood. Bishops' Wood (Lees' Fl.).

On the ground, or running up grass, twigs, etc.

1207. **Soppittiella fastidiosa** (Fr.) Mass

N.E.—Mulgrave Woods. On the ground (F.F., 1900).

1208. **Soppittiella cristata** (Fr.) Mass.

N.E.—Scarboro'. Enveloping fallen leaves, twigs, etc.

1209. **Soppittiella crustacea** (Fr.) Mass.

N.E.—Scarboro'. Over-running living moss, etc.

Distinguished by the brown colour and white, fibrillos margin.

EXOBASIDIUM Woronin.

1210. **Exobasidium vaccinii** Woronin.

S.E.—Everingham (F.F., '93).

Mid W.—Bingley (E. P. Butterfield).

S.W.—Hippings Clough, near Hebden Bridge (Fl. Hx.).

On living leaves of *Vaccinium myrtillus*.

CLAVARIACEÆ.

SPARASSIS Fr.

1211. **Sparassis crispa** Fr.

S.W.—Goitstock, in grass field under oak tree (T. H. Fl. Skipt.). Somewhat resembling a cauliflower. Edible, as are all the members of this family.

CLAVARIA Vaill.

1212. **Clavaria amethystina** Bull.

S.W.—Roche Abbey Valley; Lindrick Common; Saltaire; (Lees' Fl.).

1213. **Clavaria fastigiata** Linn.

N.E.—Castle Howard (Tr. iv.). Scarboro'. Bulmer. Coxwold (Exc. Circ., May '02). Egton Bridge (F.F., '02). Helmsley (F.F., '03).

Mid W.—Studley Royal (F.F., '81).

S.W.—Huddersfield (H.B.S.). Edlington (F.F., '91). Goitstock. Many places near Halifax and Hebden Bridge (Fl. Hx.). Anston Stones (T. Gibbs).

Among grass in pastures.

1214. **Clavaria muscoides** Linn.

S.W.—Halifax (Bolton's Cat. n. 447; and Tab. 114). Several places about Hebden Bridge and Luddenden ('Nat.', Sep. '02; and Fl. Hx.). Goitstock (Fl. Skipt.). Maltby Wood (T. Gibbs). Wakefield (Nat. Soc.).

Mid W.—Settle ('Nat.', July '81). Bolton Woods; and West Woods, Bramham (Lees' Fl.).

N.E.—Scarboro'. Mulgrave Woods (F.F., 1900). Helmsley and Rievaulx (F.F., '03).

N.W.—Masham ('Nat.', Jan. '92). Rokeby (F.F., '04).

S.E.—North Cave (A. R. Warnes). In pastures.

1215. **Clavaria coralloides** Linn.

N.E.—Scarboro' ('Nat.', July. '81). Castle Howard.

Mid W.—Micklefield (F.F., '81).

S.E.—Market Weighton (Exc. 1897).

S.W.—On bare clay bank, Goitstock Wood.

On the ground in woods.

1216. **Clavaria cinerea** Bull.

Common, on the ground in woods. Records numerous for all the county divisions.

1217. **Clavaria umbrinella** Sacc.

S.W.—Roche Abbey Valley (Lees' Fl.) = *C. umbrina* Berk.

S.E.—Boynton (W.W.S.).

1218. **Clavaria cristata** Holmsk.

On the ground in woods. Common. Records numerous for all the county divisions.

1219. **Clavaria rugosa** Bull.

"Grows in plenty, under the fir trees about Fixby Hall," 1788 (Bolton, Tab. 115). On the ground in woods. Fairly common. Records many for all the county divisions.

Has been found among *Empetrum nigrum*, on Jackson Ridge, at an altitude of 1450 feet (Fl. Hx.).

1220. **Clavaria Kunzei** Fr.

N.E.—Rievaulx (F.F., '03). In woods on the ground.

1221. **Clavaria aurea** Schæff.

S.W.—"In several woods about Halifax (1799) in Oct." (Bolton, Tab. 113 = *C. coralloides*).

N.E.—Scarboro'. Mulgrave Woods (F.F., 1900).

1222. **Clavaria formosa** Pers.

N.E.—Scarboro'. On the ground in woods.

Mid W.—Bishops' Wood (F.F., '96).

S.E.—Escrick (F.F., '96).

1223. **Clavaria spinulosa** Pers.

N.E.—Helmsley; Rievaulx (F.F., '03). In beech woods.

1224. **Clavaria abietina** Schum.

N.E.—Scarboro'. In pine woods.

Mid W.—Church Fenton (Lees' Fl.).

S.W.—Melton Wood, on pine leaves (F.F., '01).

N.W.—Masham, on decaying pine wood.

S.E.—South Cave (A. R. Warnes).

1225. **Clavaria flaccida** Fr.

N.E.—Scarboro'. Mulgrave Woods (F.F., '02.)

Among moss, etc., in and near woods.

1226. **Clavaria grisea** Pers.

S.W.—On the ground in woods, Hebden Bridge ('Nat.', June '90).

1227. **Clavaria condensata** Fr.

N.E.—Mulgrave Woods (F.F., 1900). On the ground.

1228. **Clavaria purpurea** Müll.

N.E.—Castle Howard (F.F., '92). Among grass.

Mid W.—Bolton Woods and Meanwood Wood (Lees' Fl.).

1229. **Clavaria rosea** Fr.

Mid W.—Oughtershaw ('Nat.', May '91).

S.W.—In heathy pasture, Heptonstall ('Nat.', June '94).

1230. **Clavaria fusiformis** Sow.

S.W.—Halifax 1789 (Bolton, Tab. 110). Many places about Halifax and Hebden Bridge. Shipley and Bingley (Tr. iv.). Ingrow and Calverley (Lees' Fl.). Saltaire (J. E. Sutcliffe).

N.E.—Castle Howard (Tr. iv.). Mulgrave Woods (F.F., 1900). Arncliffe and Egton Bridge (F.F., '02). Helmsley and Rievaulx (F.F., '03).

Mid W.—Micklefield (F.F., '81).

N.W.—Masham ('Nat.', May '03). Rokeby (F.F., '04) Dent (*'Nat.', Oct. '04).

S.E.—Cottingham and near Hull (A. R. Warnes).

Not uncommon on the ground in woods and woodside pastures.

1231. **Clavaria dissipabilis** Britz.

S.W.—Several places near Hebden Bridge ('Nat.', June '94). Luddenden Dean (Fl. Hx.). Huddersfield (F.F., '95).

N.W.—Masham.

N.E.—Helmsley (F.F., '03).

Among short grass in pastures, roads in woods, etc.

"A very distinct species, not at all uncommon, and previously mixed up with *C. fragilis*, from the yellow form of which it differs in the deeper orange colour and spinulose spores. The usual form is clavate and obtuse above, becoming narrowed into a slender stem. . . . Specimens are in the Kew Herbarium under *C. fragilis*, from Lyndhurst, Kew, Coed Coch, and near Edinburgh" (Grev. xxii. p. 42).

1232. **Clavaria inæqualis** Fl. Dan.

S.E.—Skipwith ('Nat.', Dec. '78). Escrick (F.F., '96).

N.E.—Scarboro'. Castle Howard ('Nat.', July '81). Egton Bridge (F.F., '02).

S.W.—Shipley Glen (Tr. iv.). Huddersfield (H.B.S.). Many places in the parish of Halifax. Edlington Woods (F.F., '91). Rockley (F.F., '97). Owston (F.F., '99). Nr. Thongsbridge (C. H. Broadhead). Ravensthorpe (H. Parkinson). Anston Stones (T. Gibbs). Wharncliffe (*'Nat.', Oct. '03).

Mid W.—Bramham (F.F., '88). Grassington (Exc. 1900). Bolton Woods (Fl. Skipt.). Stainer Wood.

N.W.—Masham. Brignall (F.F., '04).

Among grass in woods and pastures.

1233. **Clavaria argillacea** Fr.

Mid W.—Horsforth (Tr. ix.). Harewood (F.F., '88).

N.E.—Mulgrave Woods (F.F., 1900).

S.W.—Shipley Glen (Lees' Fl.). North Dean Wood, Hx. ('Nat.', Sep. '92). Lightcliffe, and near Hebden Bridge (Fl. Hx.). Among grass and moss in heavy soil.

1234. **Clavaria vermicularis** Scop.

Common in pastures and meadows in autumn. Records numerous for all the county divisions.

1235. **Clavaria fragilis** Holmsk.

S.W.—"Garden at Sha, Hx., abundantly, Oct., 1786" (Bolton, Tab. 111, f. 1). Several places near Hebden Bridge (Fl. Hx.).

N.E.—Scarboro' ('Nat.', July '81). Castle Howard (F.F., '92). Arncliffe and Mulgrave Woods (F.F., '94).

Mid W.—Bramham and Harewood (F.F., '88). Grassington. Among grass.

1236. **Clavaria fumosa** Pers.

S.W.—Huddersfield (H.B.S.). Stainland (Fl. Hx.).

N.E.—Scarboro'. Mulgrave Woods (F.F., 1900). Egton Bridge (F.F., '02). Helmsley and Rievaulx (F.F., '03).

Mid W.—Grassington (Exc., 1900).

N.W.—Burn Valley, near Masham.

In pastures, in dense smoke-brown tufts.

1237. **Clavaria tenerrima** Mass. & Crossl.

S.W.—Near Halifax, among short grass ('Nat.', Jan. '04).

1238. **Clavaria acuta** Sow.

S.W.—On soil in plant pot, Halifax (Fl. Hx.).

1239. **Clavaria uncialis** Grev.

N.E.—Scarboro' ('Nat.', July '81). Filey ('Nat.', July '03).

1240. **Clavaria ligula** Fr.

N.E.—Helmsley (F.F., '03). On dead branches on the ground in beech wood.

1241. **Clavaria contorta** Holmsk.

N.E.—Scarboro'. On fallen branches.

1242. **Clavaria juncea** Fr.

N.E.—Scarboro'. On dead leaves, etc., in woods.

TYPHULA Pers.—Fr.

1243. **Typhula erythropus** Fr.

S.W.—Halifax, 1788 (Bolton, Tab. 112, f. 1). Numerous places near Hx. and Hebden Bridge; extremely abundant in North Dean Wood (1900) on petioles of damp decaying sycamore leaves. Goitstock. Anston, Ecclesall, and Wyming Brook, near Sheffield. Wharncliffe (*'Nat.', Oct. '03).

Mid W.—Esholt ('Nat.', July '81). Horsforth (Tr. ix.). Ilkley (Lees' Fl.). Bolton Woods (Fl. Skipt.). Bishops' Wood, Selby.

N.E.—Raincliffe Wood, etc. Scarboro'. Castle Howard (F.F., '92). Helmsley (F.F., '03).

N.W.—Masham ('Nat.', Jan. '02).

On dead herbaceous stems, leaves, etc.

1244. **Typhula phacorrhiza** Fr.

N.E.—Scarboro'. On dead leaves, herbaceous stems, etc.

S.W.—Elland Park Wood (Fl. Hx.). Apperley (H.T.S.).

1245. **Typhula gyrans** Fr.

N.E.—Scarboro'. On dead grass stems, etc.

S.W.—Shipley Glen Bog ('Nat.', Sep. '91). Norland, and near Hebden Bridge (Fl. Hx.).

1246. **Typhula muscicola** Fr.

N.E.—Mulgrave Woods (F.F., 1900). On living mosses.

1247. **Typhula filiformis** Fr.

N.E.—Scarboro' (Tr. iv.). Among dead leaves.

1248. **Typhula pusilla** Schrœt.

S.W.—Elland, on decaying leaves of wych-elm and alder (Fl. Hx.).

N.E.—Arncliffe Woods (F.F., '02). On decaying leaves.

PISTILLARIA Fr.

1249. **Pistillaria tenuipes** Mass. [*Clavaria tenuipes* B. & Br.].

S.W.—Shipley, on railway embankment (Lees' Fl.).

1250. **Pistillaria micans** Fr.

N.E.—Scarboro'. On dead thistle stems.

1251. **Pistillaria culmigena** Fr.

N.E.—Scarboro'. On grass stems.

1252. **Pistillaria quisquilaris** Fr.

N.E.—Scarboro' (Tr. iv.). Helmsley (F.F., '03).

S.W.—Luddenden; Norland; and Lightcliffe, on wet dead oak leaves (Fl. Hx.). Ecclesall, and Wyming Brook, near Sheffield.

1253. **Pistillaria puberula** Berk.

S.W.—Near Halifax, and Hebden Bridge, on dead leaves (Fl. Hx.). Warmsworth (F.F., '01).

N.W.—Masham ('Nat.', Jan. '02).

TREMELLACEÆ.

AURICULARIEÆ.

AURICULARIA. Bull.

1254. **Auricularia mesenterica** Fr.

S.W.—Halifax. On smooth surface of ash tree stump (Bolton, Tab. 172).

N.E.—Scarboro'. On trunks.

HIRNEOLA. Fr.

1255. **Hirneola auricula-judæ** Berk.

S.W.—On elder and willow trees about Halifax 1789 (Bolton, Tab. 107). Elland ('Nat.', Sep. '92). Heaton; Roche Abbey; and Sprotborough (Lees' Fl.). Birdwell (F.F., '97). Sutton and Campsall (F.F., '99). Cadeby; Melton; etc. (F.F., '01). Anston (T. Gibbs).

N.E.—Scarboro' ('Nat.', July '81). Thirsk ('Nat.', Feb. '89). Mulgrave Woods (F.F., 1900). Coxwold (Exc. Circ. May '02). Egton Bridge (F.F., '02). Rievaulx (F.F., '03).

Mid W.—Harewood; Wetherby; etc. (Lees' Fl.). Went Cutting (Nat. Hist. Jour. June '93). Killinghall Bridge ('Nat.', July '94).

S.E.—Escrick (F.F., '96). North Grimston ('Nat.', June '02).

N.W.—Swinton, near Masham.

Not uncommon on living elder trees; rarely on any other, but is recorded as occurring on elm and willow.

TREMELLEÆ.

EXIDIA Fr.

1256. **Exidia glandulosa** Fr.

N.E.—Castle Howard (Tr. iv.). Bulmer. Scarboro'. Rievaulx (F.F., '03). On dead oak-branches.

S.E.—Boynton (W.W.S.).

Mid W.—Studley (F.F., '81). Bolton Woods; Woodhall; (Lees' Fl.). Stainer Wood, Selby.

N.W.—Brignall (F.F., '04). On dead oak-twigs.

1257. **Exidia recisa** Fr.

N.E.—Scarboro'. On dead willow-branches.

S.W.—Campsall (F.F., '99).

1258. **Exidia albida** (Huds.) Bref.

N.E.—Scarboro' (Tr. iv.). On fir log, Cloughton ('Nat.', Jan. '92). Egton Bridge (F.F., '02).

Mid W.—Harrogate, on dead branches (Lees' Fl.).

S.W.—Melton and Potridings (F.F., '01).

S.E.—Osgodby, on dead thorn (W. N. C.).

N.W.—Brignall and Thorsgill (F.F., '04).

ULOCOLLA. Bref.

1259. **Ulocolla saccharina** Bref. [*Exidia.* Fr.]

N.E.—Scarboro'. On stump of pine and other trees.

1260. **Ulocolla foliacea** (Pers.) Bref. [Tremella. P.]

N.E.—Scarboro' (Tr. iv.). On stumps of pine, etc.

S.W.—Lepton (Hud. Bot. Soc.). Hardcastle ('Nat.', Sep. '92); other places near Hebden Bridge (Fl. Hx.).

Mid W.—Bolton Woods (Fl. Skipt.).

N.W.—Masham ('Nat.', Jan. '02). On pine stump.

TREMELLA. Dill. in part.

1261. **Tremella fimbriata** Pers.

N.E.—Scarboro' ('Nat.', July '81). Mulgrave (F.F., '94).

S.W.—Steeton, on dead wood (Lees' Fl.). Ovenden and Hebden Bridge, on the cut surface of new stumps ('Nat.', Sep. '92).

1262. **Tremella frondosa** Fr.

N.E.—Scarboro' (Tr. iv.). Mulgrave Woods (F.F., 1900).

N.W.—Masham, on oak stump ('Nat.', May '03).

Mid W.—Stainer Wood, Selby.

1263. **Tremella lutescens** Pers.

S.W.—Calverley, on dead hawthorn ('Nat.', Sep. '91). Shibden Head near Hx. ('Nat.', Sep. '92). Campsall (F.F., '99). Near Sheffield.

N.E.—Scarboro'. Mulgrave (F.F., 1900). Helmsley (F.F., '03).

N.W.—Masham ('Nat.', Jan. '02).

S.E.—Allerthorpe (F.F., '93).

On fallen branches, stumps, etc.

1264. **Tremella mesenterica** Retz.

N.E.—Bulmer; Scarboro' (Tr. iv.). Castle Howard. Mulgrave Woods (F.F., '02). Rievaulx (F.F., '03).

Mid W.—Harewood (F.F., '88). Bolton Woods (Fl. Skipt.). Stainer Wood ('Nat.', Ap. '03). Knaresboro' (H. Fisher).

N.W.—Sedbergh (Exc. '99). Masham ('Nat.', Jan. '02). Rokeby, etc. (F.F., '04). Abundant on dead beech branches.

S.E.—South Cave (A. R. Warnes).

1265. **Tremella intumescens** Eng. Bot.

N.E.—Scarboro'. On trunks of beech.

1266. **Tremella viscosa** Berk.

Mid W.—Harrogate, on dead wood (Lees' Fl.).

S.E.—Swan-island, Hornsea Mere (A. R. Warnes).

1267. **Tremella moriformis** Berk.

N.E.—Scarboro'. On rotten wood.

1268. **Tremella tubercularia** Berk.

N.E.—Scarboro' ('Nat.', July '81). On rotten oak wood.

S.W.—Heptonstall, on rotting oak ('Nat.', June '94).

Not a typical Tremella, and may possibly prove to be the conidial form of some ascigerous fungus.

NÆMATELIA Fr.

1269. **Næmatelia encephala** Fr.

Mid W.—On pine rail, Bramham (Lees' Fl.).

S.W.—On bark, near Hebden Bridge (Fl. Hx.).

1270. **Næmatelia mucleata** Fr.

N.E.—Scarboro'. On rotten wood ('Nat.', July '81).

1271.—**Næmatelia virescens** Corda.

N.E.—Scarboro'. On furze branches.

DACRYOMYCETEÆ.

DITIOLA. Fr.

1272. **Ditiola radicata** Fr.

S.W.—Hebden Bridge ('Nat.', June '94). On pine wood.

N.E.—Coxwold ('Nat.', Sep. '02). On rotten wood.

DACRYOMYCES. Nees.

1273. **Dacryomyces deliquescens** Duby.

Common throughout the county on pine rails, palings, gateposts, disused rafters, etc.

1274. **Dacryomyces stillatus** Ness.

Common everywhere on decorticated prostrate trunks, rails, posts, palings, etc. Records most numerous.

1275.—**Dacryomyces chrysocomus** Fr.

S.W.—Wentbridge ('Nat.', Aug. '77). Battyeford (Lees' Fl.). Hebden Bridge; Elland; and North Dean (Fl. Hx.).

N.E.—Scarboro' ('Nat.', July '81). On rotten fir wood.

Mid W.—Wetherby; Boston Spa, etc., on branches of fir (Lees' Fl.). Bramham (F.F., '88).

1276. **Dacryomyces torta** Mass. [*Tremella.* Berk.]

N.W.—Brignall (F.F., '04). On dead oak wood.

PROTOCLAVARIEÆ.

CALOCERA. Fr.

1277. **Calocera viscosa** Fr.

Common on stumps, especially pine. Records numerous for all the county divisions.

1278. **Calocera cornea** Fr.

Common on stumps, and decorticated trunks and branches, especially oak. Records many for all the county divisions.

1279. **Calocera stricta** Fr. [*Clavaria aculeiformis* Bull. *pl. 436, fig. 4.*]

S.W.—On the stock of a fallen tree which has lain for some time in a damp place amongst tall weeds (Bolton, unpublished Tab. 211, Brit. Mus. (Nat. Hist.) n. 1980). Melton (F.F. '91). On dead trunk. Wharncliffe (*'Nat.', Oct. '03).

1280. **Calocera glossoides** Fr.

S.W.—Luddenden Dean ('Nat.', Nov. '91). Hebden Bridge ('Nat.', June '94). Elland, on fallen trunks (Fl. Hx.). Ecclesall Woods, Sheffield.

UREDINACEÆ.

MELAMPSOREÆ.

MELAMPSORA. Cast.

1281. **Melampsora helioscopiæ** (Pers.).

[*Melampsora euphorbiæ* Cast.]

S.W.—Hook, near Goole (Lees' Fl.). On *Euphorbia.* sp.?

N.W.—Masham, on *Euphorbia peplus* in garden.

N.E.—Helmsley, on *E. peplus* in garden (F.F., '03).

1282. **Melampsora lini** (Pers.). [*Lecythea.* Berk.].

N.E.—Scarboro' ('Nat.', Aug. '81). Staithes (*'Nat.', Ap. '98). Whitby (J. Wms. Sutcliffe, Hx.). Stokesley (Exc. '99).

Mid W.—Grassington (*'Nat.', Sep. '82). Ingleton; Settle; Malham (Lees' Fl.). East Keswick (F.F., '98).

S.W.—Shireoaks (Lees' Fl.).

S.E.—Rise and Hotham Parks, near Hull (R. H. Philip). Filey (J. T. Jolley, Hx.).

On *Linum catharticum.*

1283. **Melampsora farinosa** (Pers.).

[*Lecythea caprearum* Berk. *M. salicina* Lév.]

N.E.—Scarboro' (Tr. iv.). Osmotherley (J. A. Wheldon). Staithes (*'Nat.', Ap. '98).

Mid W.—Studley Royal (F.F., '81). Bolton Woods (Fl. Skipt.) Ingleton (J. E. Sutcliffe, Bdf.). Buckden (*'Nat.', Sep. '04).

N.W.—Masham (*'Nat.', May '80). Sedbergh, '02.

S.W.—Shireoaks, etc. (Lees' Fl.). Bingley (Fl. Skipt.). Hebden Bridge (Fl. Hx.). Huddersfield (F.F., '95).

S.E.—Skipwith Common (R. H. Philip). Bowes (*'Nat.', Sep. '03). Riccall, near Selby.

On the leaves of *Salix sp.* In the above records, when the host name is given, it is *S. caprea.*

1284. **Melampsora epitea** (Kze. & Schm.).

N.E.—Scarboro'. On *Salix viminalis.*

Mid W.—East Keswick and Woodhall Bridge (F.F., '98).

N.W.—Masham, on *S. viminalis* ('Nat.', Jan. '02).

1285. **Melampsora mixta** (Schlecht.). [*Lecythea* Lév.]

S.W.—Shireoaks Common, on willows (Lees' Fl.).

1286. **Melampsora vitellinæ** (D.C.). [*Lecythea saliceti* Lév.]

Mid W.—Bishops' Wood (Tr. ii.). Grassington (*'Nat.', Sep. '82).

S.E.—Riccall Common (*'Nat.', Oct. '79).

S.W.—Saltaire ('Nat.', Nov. '79). On leaves of *S. vitellina*.

N.E.—Northallerton, '83 (J. A. Wheldon).

N.W.—Masham, on *S. fragilis* ('Nat.', May '03).

1287. **Melampsora pinitorqua** Rostrup. On *Pinus sylvestris*. Melampsora stage (=*M. tremulæ* Tul). On *Populus tremula*.

N.E.—Northallerton (J. A. Wheldon).

S.E.—Hull, on *Populus tremula* (R. H. Philip).

N.W.—Masham. On young trees of *Pinus sylvestris*.

1288. **Melampsora larici-tremulæ** Kleb. [=*Cæoma laricis* Wint.]

N.W.—Masham, Oct. '03.

Cæoma stage on young larch trees. Melampsora on leaves of *Populus tremula*.

1289. **Melampsora populina** (Jacq.).

N.E.—Bulmer (Tr. iv.). Northallerton, '80 (J. A. Wheldon.)

S.W.—Doncaster (Tr. iv.). Goole ('Nat.', Aug.'81). Batley.

Mid W.—Clapham; Bishops' Wood, on *P. nigra* (Lees' Fl.).

1290.—**Melampsora betulina** (Pers.).

N.E.—Bulmer (Tr. iv.). Scarboro' ('Nat.', Aug. '81). Arncliffe Woods (F.F., '94). Limber Wood (F.F., '02).

S.W.—Saltaire (Tr. iv.). Haigh (*'Nat.', Oct. '82). Bingley; Thorne Waste (Lees' Fl.).

Mid W.—Adel Bog (Lees' Fl.).

N.W.—Bowes (*'Nat.', Sep. '03).

On leaves of *Betula alba*.

1291. **Melampsora circææ** (Schum.).

S.W.—Sandal Beat, near Doncaster (*'Nat.', Aug. '79).

Mid W.—Studley Royal (F.F., 81). Woodhall (F.F., '98).

S.E.—Rise Park, near Hull (R. H. Philip).

N.E.—Limber Wood (F.F., '02).

N.W.—Brignall (F.F., '04).

On leaves of *Circæa lutetiana*.

1292. **Melampsora padi** (Kze. & Schm.). [*Uredo*. Kze.].

Mid W.—Hackfall, on leaves of *Prunus padus* (Lees' Fl.).

1293. **Melampsora vacciniorum** (Link.). [*Uredo*. Pers.].

Mid W.—Baildon (Tr. iv.). Washburn Dale (*'Nat.', Sep. '83). Rombalds Moor, etc. (Lees' Fl.).

S.W.—Bingley (Fl. Skipt.).

N.E.—Castle Howard (F.F., '92).

On leaves of *Vaccinium myrtillus*.

1294. **Melampsora cerastii** (Pers.). [*Uredo caryophyllacearum* Johnst.].

Mid W.—Penyghent, on *Cerastium alpestre* (Lees' Fl.).

N.E.—Scarboro' (Tr. iv.). On *C. arvense*.

This species has been proved to be the teleutospore form of the fungus previously called *Peridermium elatinum* Wallr., forming witches brooms on the silver fir.

COLEOSPORIUM. Lév.

1295. **Coleosporium senecionis** (Pers.). [*Peridermium pini* Chev. *P. acicolum* Link. *Trichobasis* Berk.].

Mid W.—Sherburn (*'Nat.', July '84). Bishops' Wood, on firs (Lees' Fl.). Skipton (J. E. Sutcliffe, Bdf.).

S.W.—Roche Abbey, on firs; Saltaire, on *Senecio vulgaris* (Lees' Fl.). Goole, on fir needles and *S. vulgaris* (T. Bunker).

N.E.—Scarboro'(*'Nat.', Oct.'91). Egton Bridge (F.F.,'02).

N.W.—Masham, on *Pinus sylvestris* and *S. vulgaris* ('Nat.', May '03).

S.E.—Skipwith, on *S. sylvaticus* (R. H. Philip).

The æcidium stage occurs on *Pinus sylvestris* May and June: the uredo. and teleuto. stages on species of *Senecio* all the year round. Not uncommon.

"The removal of species of *Senecio* from the neighbourhood of the pines arrests the disease" (Mass. Text-Book of Plant Diseases).

1296. **Coleosporium sonchi** (Pers.). [*C. sonchi-arvensis* Lév.; *C. tussilaginis* Lév.; *C. petasitis* Lév.].

Very common on *Tussilago farfara*; less so on *Petasites officinalis*; still less on *Sonchus arvensis*. Records for each county division too numerous to detail.

In this and the two following species the uredo. and teleuto. stages occur on the same host.

1297. **Coleosporium campanulæ** (Pers.).

N.E.—Scarboro' (Tr. iv.). Osmotherley '78 (J. A. W).

Mid W.—Stainforth ('Nat.', Aug. '81). Washburn Dale ('Nat.', Sep. '83). Otley; Malham (Lees' Fl.). East Keswick (F.F., '98). Buckden (* 'Nat.', Sep. '04).

On *Campanula rotundifolia*.

1298. **Coleosporium euphrasiæ** (Schum).

[*C. rhinanthacearum* Lév.]

N.E.—Scarboro'. Northallerton, on *Bartsia odontites* '82 (J. A. Wheldon). Staithes (* 'Nat.', Ap. '98); and Stokesley (Exc. '99) on *Euphrasia officinalis*.

Mid W.—Malham, on *B. odontites* (Lees' Fl.). Woodhall Bridge (F.F., '98). Clapham, on *B. odontites*.

S.W.—Bingley (Fl. Skipt.); and Luddenden Dean (Fl. Hx.) on *E. officinalis*.

S.E.—Little Weighton, on *B. odontites* (R. H. Philip).

PUCCINIEÆ.

UROMYCES Link.

1299. **Uromyces fabæ** (Pers.). [*U. appendiculata* Lèv. *Trichobasis fabæ*, Lèv. etc., etc.].

N.E.—Bulmer; Scarboro'. Northallerton '82 (J. A. Wheldon). Mulgrave (F.F., '02).

Mid W.—Stainforth ('Nat.', Aug. '81). Ilkley. Church Fenton (Lees' Fl.). Malham (Fl. Skipt.).

S.W.—Saltaire (Lees' Fl.). Sutton (F.F., '99).

N.W.—Masham.

All the foregoing records are on leaves of bean, *Faba vulgaris*.

S.E.—Beverley, on bean leaves; Swine, on leaves of *Lathyrus pratensis* (R. H. Philip).

"This parasite is very common on the leaves and stems of broad beans, peas, also on several wild leguminous plants, as vetches, etc." (Mass. Text-Book of Plant Diseases).

1300. **Uromyces phaseoli** (Pers.).

N.E.—Bulmer. On scarlet runner, *Phaseolus vulgaris*.

[**Uromyces limonii** (DC.).

A Lincolnshire record (Cleethorpes) but will probably also be found on the Yorkshire shore near Spurn (R. H. Philip).

On *Statice limonium*.]

1301. **Uromyces polygoni** (Pers.) [*Æcidium aviculare* Kze. *Puccinia vaginalium* Link. etc.].

N.E.—Bulmer, Scarboro'. Northallerton '82 (J. A. Wheldon). Stokesley (Exc. '99).

Mid W.—Lindrick Dale, etc. (Lees' Fl.). East Keswick (F.F., '98).

S.W.—Frizinghall (Lees' Fl.). Knottingley ('Nat.', Oct. '93). Bingley (Fl. Skipt.). Skircoat; Luddenden (Fl. Hx.). Cadeby (F.F., '01).

S.E.—Market Weighton (Exc. '97). Swine (R. H. Philip).

N.W.—Masham ('Nat.', Jan. '02).

On *Polygonum aviculare*.

1302. **Uromyces trifolii** (A. & S.). [*Trichobasis fallens* Cke. *U. apiculatus* Lév. etc.].

N.E.—Scarboro'.

Mid W.—Ilkley; Collingham Bridge, on *Trifolium pratense*. East Keswick and Harewood (F.F., '98).

S.W.—Saltaire; and between Shireoaks and Anston (Lees' Fl.), under *U. appendiculata*. On *T. pratense*. Hebden Bridge, on *T. repens* (Fl. Hx.). Huddersfield (F.F., '95).

1303. **Uromyces geranii** (DC.). [*Trichobasis geranii* Berk. *Æcidium geranii* DC., etc.].

Mid W.—Horton-in-Ribblesdale, on *Geranium pratense* (Lees' Fl.). Studley Royal (F.F., '81). Malham; Skipton: Airton; Grassington (Fl., Skipt.). Thorparch, on *G. columbinum*. Ripon, on *G. pratense* (J. E. Sutcliffe, Bdf.).

S.W.—Near Bingley, on *G. pyrenaicum*. (Lees' Fl.).

N.E.—Northallerton (J. A. Wheldon). Egton Bridge (W.W.S.). Richmond, on *G. pratense* (J. E. Sutcliffe, Bdf.).

N.W.—Masham, on *G. pratense* ('Nat.', May '03).

1304. **Uromyces valerianæ** (Schum). [*Æcidium valerianacearum* Duby. *Lecythea.* Berk.].

N.E.—Castle Howard (Tr. iv.). Welham Park (F.F., '92). Egton Bridge (F.F., '02).

Mid W.—Hawksworth (Tr. ii.). Ilkley; Meanwood (Lees' Fl.). Ingleton (J. E. Sutcliffe, Bradford).

S.E.—Filey (* 'Nat.', June '83).

S.W.—Saltaire (Lees' Fl.). Hebden Bridge (Fl. Hx.).

N.W.—Masham, on *Valeriana dioica* ('Nat.', May '03).

On *Valeriana officinalis* and *V. dioica.*

1305. **Uromyces parnassiæ** (DC.). [*Trichobasis* Cke.].

N.E.—South Cliffs, Scarboro'.

Mid W.—Seavy Carr, Stutton; Kirk Deighton (Lees' Fl.).

N.W.—Masham ('Nat.', May '03).

On *Parnassia palustris.*

1306. **Uromyces poæ** Rabh.

Æcidiospores on *Ranunculus sp.* especially *R. ficaria;* teleutospores on sp. of Poa. Common. Records numerous for all the county divisions.

1307. **Uromyces junci** (Desm.).

Mid W.—Church Fenton, on rushes (Lees' Fl.).

1308. **Uromyces maritimum** Plow.

S.E.—On the Humber bank near Hull (Science Com. Roy. Hort. Soc., July 20, '90; Gard. Chron., Aug. 2, '90, p. 139).

On *Glaux maritima.*

1309. **Uromyces pisi** (Pers.).

N.E.—Scarboro'. Uredospores on *Pisum sativum.*

1310. **Uromyces rumicis** (Schum). [*Uredo bifrons* Grev. *Uromyces apiculosa* Lèv., etc., etc.].

N.E.—Scarboro' ('Nat.', Aug. '81). Stokesley (Exc. '99).

Mid W.—Studley Royal (F.F., '81). Washburndale (* 'Nat.', Sep. '83). East Keswick, on *Rumex obtusifolius* (F.F., '98).

S.W.—Saltaire; Wilsden; on *R. acetosa* (Lees' Fl.). Kiveton and Anston (Lees' Fl.). Hebden Bridge, on *R. acetosa* (Fl. Hx.). Bingley (Fl., Skipt.).

S.E.—South Cave and Birkhill Wood, on *R. conglomeratus* (R. H. Philip).

N.W.—Masham, on *R. acetosa* ('Nat.', May '03). Rokeby (F.F., '04).

1311. **Uromyces alchemillæ** (Pers.). [*Uromyces intrusa*, Lèv. *Trachyspora alchemillæ* Fckl. etc.].

On *Alchemilla vulgaris*. Common. Distribution general. Records numerous for all the county divisions.

1312. **Uromyces ficariæ** (Schum).

N.E.—Castle Howard (*'Nat.', June '80). Scarboro' (Exc. '92). Oldstead Bank (*'Nat.', Sept. '02).

S.W.—Common in the neighbourhoods of Halifax and Hebden Bridge. Anston Stones.

Mid W.—Bolton Woods and Malham (Fl. Skipt.).

N.W.—Masham and Swinton ('Nat.', May '03).

S.E.—Hornsea (Exc. 1900).

On *Ranunculus ficaria*. Occasionally accompanied by *U. poæ* on the same leaf.

1313. **Uromyces scillarum** (Grev.). [*U. concentrica* Lév.]

N.E.—Scarboro'.

S.W.—Saltaire; Bingley (Lees' Fl.). Many places about Halifax and Hebden Bridge. Anston Stones.

Mid W.—Dunnow, Bowland. Bolton Woods (Fl. Skipt.). Grassington (J. E. Sutcliffe, Bdf.).

On *Scilla nutans:* not uncommon in moist woods.

1314. **Uromyces ornithogali** (Wallr). [*U. gageæ* Berk.]

S.W.—Sprotborough; Roche Abbey and Anston districts (Lees' Fl.). On *Gagea lutea*.

Mid W.—Ilkley (Fl. Skipt.).

GYMNOSPORANGIUM. Hedw.

1315. **Gymnosporangium sabinæ** (Dicks).

[*Ræstelia cancellata* Reb.]

N.E.—Teleutospores on *Juniperus sabina* Scalby, near Scarboro'.

S.W.—Æcidiospores on pear tree, Dinnington (Lees' Fl.).

1316. **Gymnosporangium clavariæforme** (Jacq.).

[*Podisoma juniperi* Fr. *Ræstelia lacerata* Tul., etc.]

N.E.—Scarboro. Æcidiospores on hawthorn leaves; teleutospores on *juniper*.

Mid W.—Bishops' Wood (*'Nat.', Sep. '78). Hambleton (Tr. ii.). Ribblehead (Tr. iv.). Wistow. Horton-in-Ribblesdale (Lees' Fl.).

S.W.—Snaith (Lees' Fl.).

N.W.—Leyburn (J. A. Wheldon).

"Very injurious to nursery stock. In the case of full grown pear trees, the loss of the leaves early in the season prevents the formation of a good supply of reserve material, and consequently a poor crop of fruit the following season" (Mass. Text-Book of Plant Diseases, fig. 65).

PUCCINIA. Pers.

1317. **Puccinia galii** (Pers.) [*P. galiorum* Link. *P. difformis* Fckl., etc.].

N.E.—Scarboro'. Bulmer (Tr. iv.). Hawnby, near Helmsley, on *Asperula odorata;* Bedale, on *Galium cruciata* (J. A. Wheldon). Whitby. Arncliffe Woods (F.F., '94).

S.E.—North Wood, Boynton (W.W.S.). Filey, on *G. cruciata* (*'Nat.', July '03).

Mid W.—Baildon, on *G. saxatile;* Wighill; Walton (Lees' Fl.). Airton (Fl. Skipt.). Brennand Valley, Newton-in-Bowland (Exc. '96).

1318. **Puccinia calthæ** Link. [*Æcidium.* Grev.].

N.E.—Scarboro' ('Nat.', Aug. '81). Throxenby (W.W.S.).

S.E.—Filey (*'Nat.', July '83, and July 1903). Driffield (R.H.P.).

Mid W.—Church Fenton (Lees' Fl.).

N.W.—Masham ('Nat.', Jan, '02).

On leaves of *Caltha palustris*.

1319. **Puccinia silenes** Schröt.

N.E.—Scarboro'. On *Silene inflata*.

1320. **Puccinia prenanthis** (Pers.). [*Æcidium prenanthis* Pers. *Puccinia chondrillæ* Corda].

Mid W.—Malham (*'Nat.', Nov. '83). Barden; Bolton Woods (Lees' Fl.). Airton (Fl., Skipt.). Whitwell, Bowland (Exc. '96).

S.W.—Anston Stones (*'Nat.', June '85). Bingley (Lees' Fl.). Hebden Bridge (Fl. Hx.).

N.W.—Masham. Sedbergh (Exc. '02). Rokeby '04.

S.E.—South Cave (R. H. Philip).

On *Lactuca muralis*.

1321. **Puccinia lapsanæ** (Schultz). [*Æcidium prenanthis* Pers. *Æ. lapsanæ* Purt.].

On *Lapsana communis* and *Crepis paludosa*. Common. Records many for all the county divisions.

1322. **Puccinia variabilis** (Grev.).

N.E.—Bulmer; Scarboro' (Tr. iv.). Northallerton.

Mid W.—Bolton Woods ('Nat.', Aug. '81). Grassington (Jour. Bot. '85).

S.W.—Hardcastle; Ogden; (Fl. Hx.).

S.E.—South Cave, and Driffield (R. H. Philip).

N.W.—Sedbergh (Exc. '02). Masham ('Nat.' Jan. '02).

On *Taraxacum officinale*.

1323. **Puccinia pulverulenta** Grev.

S.W.—Went Vale ('Nat.', Aug. '81). Calverley (Lees' Fl.). Hebden Bridge, several places (Fl. Hx.).

N.E.—Scarboro' (Tr. iv.). Bedale (J. A. Wheldon). Staithes (*'Nat.', Ap. '98). Stokesley (Exc. '99).

S.E.—Filey (*'Nat.', July '83). Allerthorpe (F.F. '93). Cottingham; Hornsea; and Driffield (R. H. Philip).

Mid W.—Keswick (F.F. '98). Ripon; Bolton Woods.

N.W.—Masham, on *Epilobium montanum* in garden.

On *Epilobium hirsutum* and *E. montanum*.

1324. **Puccinia violæ** (Schum). [*Æcidium violæ* Schum. *Puccinia violarum* Link, etc.].

On *Viola* sp. Common. Records very numerous for all the county divisions.

1325. **Puccinia albescens** (Grev.). [*Æcidium*, Grev.].

Mid W.—Esholt (Tr. ii.). Malham ('Nat.', Aug. '81). Barden and Skipton (Fl. Skipt.). Horsforth (J. E. Sutcliffe).

N.E.—Castle Howard ('Nat.', June'80). Scarboro' (Tr. iv.).

On *Adoxa moschatellina*.

1326. **Puccinia pimpinellæ** (Strauss.). [*Puccinia heraclei* Grev. *Trichobasis pimpinellæ* Strauss. etc., etc.].

Mid W.—Gilstead (Tr. iv.). Church Fenton, on *Heracleum sphondylium* (Lees Fl.). Bolton Woods, on *Myrrhis odorata*.

S.W.—Goitstock, Bingley, on *M. odorata* (Fl. Skipt.).

N.W.—Masham, on *M. odorata*, and *Anthriscus sylvestris* ('Nat.', Jan. '02, and May '03).

S.E.—Filey, on *H. sphondylium* (*'Nat.', July '03).

1327. **Puccinia apii** (Wallr.).

S.E.—Near Hull, on *Apium graveolens* ('Nat.', Feb. '86).

1328. **Puccinia menthæ** (Pers.). [*Æcidium menthæ*, DC. *Puccinia clinopodii*, DC.]. Very common. Records for each county division too numerous to detail. Has been noted on *Mentha*, *viridis*, *aquatica*, *hirsuta*, *arvensis*, and *Calamintha clinopodium*.

1329. **Puccinia primulæ** (DC.). [*Æcidium*. DC.].

N.E.—Scarboro' ('Nat.', Aug. '81). Arncliffe Woods (W.W.S.). Staithes (*'Nat.', April '98). Whitby. Mulgrave (F.F., 1900).

Mid W.—Settle ('Nat.', Aug. '81). Bishops' Wood (F.F., '96). Ingleton; Giggleswick (Lees' Fl.). Malham (Fl., Skipt.).

S.E.—Hull ('Nat.', Feb. '86).

On *Primula vulgaris*.

1330. **Puccinia saniculæ** Grev. [*Æcidium*. Carm.].

Mid. W.—Bolton Woods ('Nat.', Aug. '81). Harewood (F.F., '98). Grass Woods, Grassington (Fl. Skipt.).

S.W.—Shireoaks (Lees' Fl.). Campsall (F.F., '99).

N.E.—Staithes (*'Nat.', Ap. '98). Rievaulx (F.F., '03).

N.W.—Rokeby (F.F., '03).

On *Sanicula europæa*.

1331. **Puccinia vincæ** DC.

N.E.—Scarboro'. On *Vinca minor*.

Puccinia glumarum Eriks. and Henn.

N.E.—Scarboro'. Uredospores and teleutospores on *Triticum repens*. Æcidiospores unknown.

1332. **Puccinia dispora** Eriks. and Henn.

N.E.—Scarboro'. Uredospores and teleutospores on *Bromus mollis*. Æcidiospores on *Anchusa officinalis*. This form hitherto unrecorded for Yorkshire.

1333. **Puccinia graminis** (Pers. in part). [*Æcidium berberidis*. Pers.].

S.W.—Saltaire (Tr. ii.). Went Vale ('Nat.', Aug. '81). Roche Abbey Valley; Anston Crags; Pontefract (Lees' Fl.).

Mid W.—Thorner ('Nat.', Aug. '81). Church Fenton (Lees' Fl.). Wetherby (J. E. Sutcliffe, Bdf.).

N.E.—Scarboro' (Tr. iv.). Stokesley (Exc. '99).

This fungus, as understood by Persoon, has now been proved to include several distinct species, mostly through the researches of Eriksson, who has studied the subject thoroughly for many years. Many such are called by him "biological species," that is, species without any morphological differences, but which can only inoculate one particular species of grass or cereal, or at most, a few very closely allied species. In some instances this specialisation has gone so far as to limit some biological species of fungi to a single variety of a species. This interesting specialisation on the part of some of the Uredines, and also other groups of fungi cannot be entered into in detail in this work, nevertheless the

significance of the fact, which is thoroughly confirmed, should be known.

Statistics prove that the annual loss caused by *Puccinia graminis*, and a few closely allied species, in attacking cultivated cereals throughout the world, exceeds £50,000,000.

1334. **Puccinia coronata** Corda [*Æ. crassum* Pers.].

Mid W.—Grassington (*'Nat.', Sep. '82). Giggleswick, on leaves of grass (Lees' Fl.). Askham Bog, on *Rhamnus frangula* '87 (J. A. Wheldon); and on *R. catharticus* (Exc. 1900). Malham, on *R. catharticus*.

S.W. -Pontefract; Roche Abbey Valley; Thorpe, Shireoaks; Anston, etc. (Lees' Fl.). On *R. catharticus*. Askern (*'Nat.', Oct. '93).

S.E.—Filey, on *Holcus mollis* (J. T. Jolley, Hx.).

Æcidiospores on *Rhamnus catharticus*, and *frangula*. Teleutospores on *Holcus mollis* and other grasses. "Also met with on wheat, barley and rye" (Mass. Text-Book of Plant Diseases).

1335. **Puccinia sessilis** Schneider. [*P. linearis* Rob. *Æcidium alii* Grev.].

S.W.—Saltaire (Tr. i.). Kiveton, on *Allium ursinum* (Lees' Fl.).

N.E.—Castle Howard (Tr. iv.). Howsham (*'Nat.', Nov. '89).

Mid W.—Meanwood (Tr. ix.). Malham (*'Nat.', Nov. '83). Bolton Woods; Airton (Lees' Fl.). Barden (Fl. Skipt). Dunnow, Bowland, on *A. ursinum*, and *Phalaris arundinacea*. Washburn Valley, on *P. arundinacea*. Ingleton, on *A. ursinum* (J. E. Sutcliffe, Bdf.).

Æcidiospores on *A. ursinum*, teleutospores on *P. arundinacea*.

1336. **Puccinia phalaridis** Plow. [*Æ. ari. Desm.*].

Mid W.—Bolton Woods, Æcidiospores on *Arum maculatum*. Barden (Fl. Skipt.).

Uredo. and teleutospores on *Phalaris arundinacea*.

1337. **Puccinia rubigo-vera** (DC.).

S.W.—Haigh (*'Nat.', Oct. '82). Elland, and Hebden Bridge on *Holcus mollis* and *Avena sp.*

Mid W.—Hawksworth ('Nat.', Sep. '83). Bolton Woods and Halton East (Fl. Skipt.). East Keswick (F.F. '98).

S.E.—Market Weighton (Exc. '97). Elloughton Dale (*'Nat.', Aug. '01). On various grasses near Hull (R. H. Philip). " "

N.W.—Sedbergh (Exc. '02). Masham ('Nat.', Jan. '02).

N.E.—Egton Bridge (F.F. '02).

1338. **Puccinia poarum** Niels [*Æcidium compositarum* var. *tussilaginis* Pers.].

Æcidiospores on *Tussilago farfara*; teleutospores on *Poa trivialis, pratensis, nemoralis*. Very common. Records for each county division too numerous to detail.

1339. **Puccinia caricis** (Shum.). [*Æcidium urticæ* DC. *P. striola* Link.].

Æcidiospores on *Urtica dioica*; teleutospores on several species of Carex, to which can be added *C. pendula*, collected at Staithes (*'Nat.', Ap. '98); and Mulgrave Woods (F.F. 1900).

Common. Records numerous for each county division.

1340. **Puccinia Pringsheimiana** Kleb. [*Æcidium grossulariæ* Gmel].

N.E.—Bulmer (Tr. iv.).

Mid. W.—Mulham (Lees' Fl.). Cracoe and Halton East (Fl. Skipt.). (Barden (J. E. Sutcliffe).

S.W.—Kiveton Park (Lees' Fl.).

Æcidiospores on *Ribes Grossulariæ*. "The uredo and puccinia forms of the fungus, which grow on the leaves of sedges (*Carex vulgaris*, &c.), have only quite recently been identified" (Mass. Text-Book of Plant Diseases, p. 243, fig. 62).

1341. **Puccinia schœleriana** Plow and Mag.

S.E.—Near Hull, Æcidiospores on *Senecio Jacobæa* (R.H.P.).

Uredospores and teleutospores on *Carex arenaria L.*

1342. **Puccinia dioicæ** Mag.

N.E.—Scarboro'. Æcidiospores on *Carduus palustris*. (*'Nat.', Oct. '91). Mulgrave Woods (F.F. 1900).

1343. **Puccinia obscura** Schröt.

S.W.—Saltaire; Keighley (Lees' Fl.). Bradford. Calverley. Hebden Bridge, and Luddenden (Fl. Hx.).

Mid W.—Otley Chevin (Lees' Fl.). East Keswick (F.F., '98).

S.E.—Ganstead, on *Bellis perennis* (R. H. Philip).

N.E.—Stokesley, on *Luzula campestris* (Exc. '99).

N.W.—Masham, on *B. perennis* ('Nat.', May '03).

Æcidiospores, on *B. perennis;* uredospores and teleutospores, on *L. campestris.*

1344. **Puccinia phragmitis** (Schum.). [*Æcidium rubellum*, Pers. *P. arundinacea*, Hedw., etc.].

S.E.—Brough (*'Nat.', July, '78). Staddlethorpe (Tr. ii.). Barlby ('Nat.', Aug. '81). Hornsea and Marfleet, on *Rumex hydrolapathum* (R. H. Philip).

S.W.—Goole ('Nat.', Aug. '81). Thorne Waste ('Nat.', Sep. '81). Under Anston Crags (Lees' Fl.). Askern.

N.E.—Seamer (W.W.S.). Northallerton (J. A. Wheldon). Æcidiospores, on *Rumex* sp.; uredospores and teleutospores on *Phragmites communis.*

1345. **Puccinia Trailii** Plow. [*Æcidium rubellum* Pers. in part].

S.E.—Staddlethorpe (Tr. ii.).

1346. **Puccinia magnusiana** Körn.

S.W.—Goole (Lees' Fl.). On reeds.

Mid W.—Near Church Fenton (Lees' Fl.). Harrogate.

Æcidiospores on *Ranunculus repens* and *bulbosus;* uredospores and teleutospores on *Phragmites communis.*

1347. **Puccinia moliniæ** Tul. [*Æcidium orchidearum* Field].

N.E.—Seamer Moor, Scarboro'. On *Molinia cærulea.*

S.E.—Driffield. On *Orchis latifolia* (R. H. Philip).

1348. **Puccinia persistens** Plow. [*Æcidium thalictri* Grev.].

S.W.—Goole; Pollington (Lees' Fl.). Askern (*'Nat.', Oct. '93). Went Vale, Snaith (Thos. Bunker).

Æcidiospores on *Thalictrum flavum;* uredospores and teleutospores on *Triticum repens.*

1349. **Puccinia suaveolens** (Pers.). [*Trichobasis suaveolens* Lév.]. Common on *Carduus arvensis.* Records for all the county divisions too numerous to detail.

1350. **Puccinia bullata** (Pers.). [*Puccinia conii* Fckl. *Trichobasis petroselini* Cke., etc.].

Mid W.—Gilstead (Tr. iv.). Thorlby, near Skipton, on *Silaus pratensis* (Fl. Skipt.).

N.E.—Scarboro'. On *Conium maculatum* ('Nat.', Aug.'81).

S.W.—Askern. On *C. maculatum* (*'Nat.', Oct. '93).

S.E.—Market Weighton. On *C. maculatum* (Exc. '97).

"Occurs on parsley, celery, and other cultivated as well as many wild umbelliferous plants, and proves destructive when present in quantity" (Mass. Text-Book of Plant Diseases).

1351. **Puccinia hieracii** (Schum.). [*Trichobasis hieracii* Schum, etc., etc.].

Very common on thistles, hawkweeds, and other *Compositæ.* Records for each county division too numerous to give in detail. It has been collected on *Carduus lanceolatus*, *C. palustris*, *C. heterophyllus* (Buckden, 'Nat.', Sep. '04). *Hypochæris radicata*, *Leontodon autumnalis*, *L. hispidus*, *Hieracium murorum*, *H. boreale*, and *H. pilosella.*

1352. **Puccinia centaureæ** Mart.

N.E.—Anderby; Northallerton; Scarboro' (J. A. Wheldon). Egton Bridge (F.F. '02).

Mid W.—Bolton Woods (Fl. Skipt.). Woodhall Bridge. (F.F., '98). Knaresboro' (J. E. Sutcliffe, Bdf.).

S.W.—Several places near Hebden Bridge (Fl. Hx.).

N.W.—Masham ('Nat.', May '03).

S.E.—Skipwith Common and Ganstead (R. H. Philip).

On *Centaurea nigra.*

1353. **Puccinia taraxaci** Plow.

N.E.—Scarboro'. Staithes (*'Nat.', Ap. '98). Stokesley (Exc. '99). Egton Bridge (F.F., '02).

S.W.—Bingley (Fl. Skipt.). Near Hebden Bridge (Fl. Hx).

Mid W.—East Keswick ; Woodhall Bridge (F.F., '98.)

N.W.—Bowes (*' Nat.', Sep. '03).

On *Taraxacum officinale*.

1354. **Puccinia polygoni** Pers. [*P. polygonorum* Link. *P. amphibii* Fckl. *Trichobasis polygonorum* Cke.].

S.E.—Riccall Common (*' Nat.', Oct. '79). Boynton (W.W.S.). Allerthorpe (F.F. '93). Market Weighton (Exc. '97). Skipwith Common, on *P. amphibium* (R. H. Philip).

S.W.—Morley (' Nat.', Aug. '81).

N.E.—Northallerton, on *Polygonum lapathifolium*. '82 (J. A. Wheldon). Egton Bridge (F.F. '02).

1355. **Puccinia oblongata** (Link.). [*Trichobasis oblongata* Berk. etc.].

S.W.—Shipley (Tr. ii.). Bingley (Lees' Fl.). Several places near Hebden Bridge and at Ovenden on *Luzula pilosa* and *L. campestris* (Fl. Hx.).

Mid W.—Studley Royal (F.F. '81). Esholt; Holden Wood (Lees' Fl.). Bolton Woods (Fl. Skipt.).

N.E.—Mulgrave (F.F. 1900). Egton Bridge (F.F. '02).

S.E.—Filey, on *L. campestris* (*' Nat.', July '03).

N.W.—Rokeby, on *L. maxima* (F.F. '04).

1356. **Puccinia Baryi** (B. & Br.).

Mid W.—Bolton Woods, on *Brachypodium sylvaticum* (' Nat.,' Feb. '86.).

N.E.—Howsham Woods (*' Nat.', Nov. '89).

S.W.—Bingley, on *B. sylvaticum* (Fl. Skipt). Heptonstall, on *Aira cæspitosa* (Fl. Hx).

S.E.—Filey, on *A. cæspitosa* (J. T. Jolley. Hx.).

1357. **Puccinia bistortæ** Str.

Common in the parish of Halifax during the last ten or twelve years, at present there are few beds of sweetdock free from it (Fl. Hx.). Æcidiospores on *Conopodium denudatum*; uredospores and teleutospores on *Polygonum Bistorta*. First discovered in this country by James Needham near Hebden Bridge, 1892. The following year H. T. Soppitt established,

by experimental cultures, the connection of the above two stages in the life history of this fungus (Grev. xxii., pp. 45-47).

Should be looked for in the other county divisions during spring and summer. Certain to be found.

1358. **Puccinia pruni** Pers.

N.E.—Scarboro'. On *Prunus domesticus.*

Very destructive to plum trees during some seasons. Occurs throughout the world where plum trees are cultivated.

1359. **Puccinia anthoxanthi** Fckl.

S.W.—Near Bradford ('Nat.', Mar. '85). Nab Wood, Saltaire (Lees' Fl.). Bingley (Fl. Skipt.). Hebden Bridge (Fl. Hx.). On *Anthoxanthum odoratum.*

1360. **Puccinia hydrocotyles** (Link.).

N.E.—Seamer Carr, Scarboro'.

S.E.—Houghton Woods, near Market Weighton (Exc. '97).

A very rare species, but occurred here abundantly.

On *Hydrocotyle vulgaris.*

1361. **Puccinia sonchi** Rob.

S.W.—Sutton, near Askern (F.F., '99). On *Sonchus arvensis.*

1362. **Puccinia lychnidearum** Link.

N.E.—Scarboro' (Tr. iv.). Bulmer. Castle Howard (F.F., '92). Staithes (*'Nat.', Ap. '98). Stokesley (Exc. '99). Egton Bridge (F.F., '02).

Mid W.—Bolton Woods (Lees' Fl.).

S.W.—Kiveton (Lees' Fl.).

N.W.—Swinton and Burn Valleys ('Nat.', Jan. '02).

S.E.—Swine (R. H. Philip). Filey (*'Nat.', Jy. '03).

On *Lychnis diurna.*

1363. **Puccinia tragopogi** (Pers.). [*Æcidium tragopogonis* Pers. *P. sparsa* Cke.].

S.W.—Saltaire (Tr. iv.). Near Keighley and Ingrow (Lees' Fl.). On *Tragopogon pratense.*

1364. **Puccinia smyrnii** Corda.

N.E.—Castle Hill, Scarboro' ('Nat.', Jan. '92).

On *Smyrnium Olusatrum.*

1365. **Puccinia betonicæ** DC.

Common. Records many for all the county divisions.

On *Stachys Betonica.*

1366. **Puccinia campanulæ** Carm.

S.W.—Hirst, Wadsworth (Fl. Hx.).

On *Campanula rotundifolia.*

1367 **Puccinia ægopodii** Link.

Mid W.—Harewood, in shady hedges (Lees' Fl.).

On *Ægopodium podagraria.*

1368. **Puccinia epilobii** DC.

S.E.—Boynton (W.W.S.).

Mid W.—Hawksworth, on *Epilobium palustre* (Lees' Fl.).

S.W.—Calverley and Went Vale (Lees' Fl.). Many places near Halifax and Hebden Bridge on *E. palustre* and *E. obscurum* (Fl. Hx.).

N.E.—Stokesley, on *E. palustre* (Exc. '99).

1369. **Puccinia Andersoni** B. & Br.

Mid W.—Helks Wood, Ingleton ('Nat.', Oct. '83). Grassington (Lees' Fl.). On *Carduus heterophyllus.*

1370. **Puccinia fusca** (Relhan). [*Puccinia anemones* Pers.]

N.E.—Castle Howard (Tr. iv.). Scarboro'. Cotcliffe. Northallerton '83 (J. A. Wheldon).

S.W.—Bingley (Tr. iv.). Anston Stones ('Nat.', June '85). Many places near Halifax and Hebden Bridge (Fl. Hx.). Chellow Dene, Bradford (J. E. Sutcliffe).

Mid W.—Barden; Bolton Woods; Skipton and Silsden (Fl. Skipt.). Knaresborough (J. E. Sutcliffe).

N.W.—Swinton and Masham ('Nat.', May '03).

On *Anemone nemorosa.* Fairly common.

1371. **Puccinia bunii** (DC.).

N.E.—Castle Howard (Tr. iv.). Masham ('Nat.', May '03). Helmsley (H. Slater).

S.W.—Bingley (Fl. Skipt.). Skelmanthorpe (Exc. '97). Many places near Halifax and Hebden Bridge (Fl. Hx.).

S.E.—Filey (* 'Nat.', Jy. '03).

On *Conopodium denudatum*. Not uncommon. Occasionally the *Æcidium* of *P. Bistortæ* is on the same plant along with it.

1372. **Puccinia thalictri** Chevall.

N.E.—Seamer Carr, Scarboro'. On *Thalictrum flavum*.

1373. **Puccinia adoxæ** DC.

Mid W.—Esholt (Tr. ii.). Skipton ('Nat.', May '81). Ilkley; Collingham; (Lees' Fl.). Malham (Fl. Skipt.). Bolton Woods; Knaresborough; Grassington (J. E. Sutcliffe).

S.W.—Bingley ('Nat.', Aug. '81). Saltaire; Anston Crags (Lees' Fl.).

N.E.—Scarboro'. On *Adoxa moschatellina*.

1374. **Puccinia senecionis** Lib.

S.W.—Idle (Lees' Fl.). Huddersfield (F.F., '95). Several places near Halifax and Hebden Bridge (Fl. Hx.).

N.E.—Bedale (J. A. Wheldon).

Mid W.—Grassington (Exc. 1900). Askham Bog (Exc. 1900), on *Senecio palustris*.

N.W.—Swinton and Masham, Aug. '03.

All on *Senecio aquatica* except the Askham Bog, spms.

1375. **Puccinia glomerata** Grev.

N.E.—Scarboro'. ('Nat.', Aug. '81).

S.W.—Saltaire; Bingley; (Lees' Fl.). Near Hebden Bridge, and at Ovenden (Fl. Hx.).

Mid W.—East Keswick (F.F., '98). Buckden (*'Nat.', Sept. '04).

N.W.—Brignall (F.F., '04). On *Senecio Jacobæa*.

1376. **Puccinia arenariæ** (Schum.).

N.E.—Northallerton, '80 (J. A. Wheldon). Castle Howard. On *Dianthus barbatus*.

Though this fungus attacks several of our indigenous Caryophyllaceous plants, as chickweed, stitchwort, pearlwort, spurrey, etc., this appears to be the only Yorkshire record.

1377. **Puccinia chrysosplenii** Grev.

Mid W.—Bolton Woods (Lees' Fl.).

On *Chrysosplenium alternifolium*.

1378. **Puccinia veronicæ** (Schum.).

S.W.—Saltaire. Hebden Bridge (Fl. Hx.).

N.E.—Castle Howard (F.F., '92). Staithes (*'Nat.', Jy. '98). Egton Bridge (F.F., '02). Rievaulx (F.F., '03).

Mid W.—Woodhall Bridge (F.F., '98).

N.W.—Rokeby (F.F., '04).

On *Veronica montana*.

1379. **Puccinia valanti** Pers.

Mid W.—Malham, on *Galium Cruciata* (Lees' Fl.).

S.W.—Lindrick Dale, on *G. Cruciata* (Lees' Fl.). Near Hebden Bridge, on *G. saxatile* (Fl. Hx.).

N.W.—Masham, on *G. Cruciata* ('Nat.', May '03).

1380. **Puccinia malvacearum** Mont.

Common throughout the county.

"This rust is a native of Chili, and first appeared as a pest in Australia, soon afterwards entering Europe through France, and at the present day is to be met with wherever the hollyhock is cultivated, and in addition having victimised the wild mallows and allied plants during its distribution. This disease at the time of its first appearance, rendered almost impossible the successful cultivation of the hollyhock; but with the progress made during recent years in the methods of arresting plant diseases, it can now be cultivated with success." (Mass. Text-Book of Plant Diseases).

1381. **Puccinia circææ** Pers.

N.E.—Forge Valley '80 (J. A. W.). Scarboro' ('Nat.', Aug. '81).

S.W.—Near Bradford ('Nat.', March '85).

On *Circæa lutetiana*.

1382. **Puccinia veronicarum** DC.

S.W.—Newsholme Dean (Lees' Fl.). Near Keighley, on *Veronica Chamædrys* (Fl. Skipt.).

Mid W.—Bolton Woods, on *V. montana* (Lees' Fl.).

1383.—**Puccinia glechomatis** DC.

N.E.—Mulgrave Woods (F.F., '02). Rievaulx (F.F., '03).

On *Nepeta Glechoma*.

1384. **Puccinia annularis** (Straus) Wint.

N.E.—Terrington Carr, on *Teucrium Scorodonia*.

PHRAGMIDIUM Link.

1385. **Phragmidium fragariastri** (DC.). [*P. acuminatum* Fr.].

Mid W.—Grassington (*'Nat.', Sep. '82). Barden; Skipton (Fl. Skipt.). East Keswick (F.F., '98). Knaresborough; Addingham; Embsay; 1902 (J. E. Sutcliffe).

N.E.—Scarboro'. Glaisdale, Whitby (Exc. '94). Oldstead Bank, and Roulston Scar, on *Fragaria vesca* (Exc. '02).

S.E.—Cottingham (R. H. Philip). Filey (*'Nat.', Jy.'03).

N.W.—Masham ('Nat.', May '03). Sedbergh (Exc. '02).

All on *Potentilla Fragariastrum* with the exception of the Roulston Scar specimens.

1386. **Phragmidium sanguisorbæ** (DC.).

Mid W.—Malham (Fl. Skipt.). Barden (H.T.S.). Stainforth-in-Craven (J. E. Sutcliffe).

S.E.—Elloughton Dale (*'Nat.', Aug. '01). Brandesburton, and Newbald (R. H. Philip).

N.W.—Tanfield. On *Poterium Sanguisorba*.

The records for Ingleton; Arncliffe; Barden; Malham; and Thorpe Slavin in Lees' Fl. under *Phragmidium acuminatum*. "On living leaves of salad-burnet (*Poterium Sanguisorba*)" most likely belong here.

1387. **Phragmidium tormentilla** Fckl. [*P. obtusatum* Fr.; *Uredo potentillarum*, DC.

S.W.—Shipley (Tr. iv.).

Mid W.—Knaresborough. Harrogate (Tr. iv.). Horton-in-Ribblesdale ('Nat.', Aug. '81). Grassington (*'Nat.', Sep. '82).

N.E.—Olivers' Mount, Scarboro' (W.W.S.).

S.E.—Filey ('Nat.', June '83).

On *Potentilla tormentilla*.

1388. **Phragmidium violaceum** (Schultz). *Lecythea ruborum* Lév. in part.

N.E.—Scarboro'. Cotcliffe; Seamer; and Pilmoor (J. A.

Wheldon). Cloughton, abundant ('Nat.', Jan. '92). Staithes (*'Nat.', Ap. '98). Stokesley (Exc. '99). Egton Bridge (F.F., '02).

Mid W.—Beckwithshaw, '82 (H.T.S.). Barden.

S.W.—Hatfield (*'Nat.', Mar. '88). Campsall; Sutton, etc. (F.F., '99).

N.W.—Masham ('Nat.', Jan. '02).

S.E.—Filey, 1901 (J. T. Jolley, Hx.).

On *Rubus fruticosus*.

1389. **Phragmidium rubi** (Pers.) [*Lecythea ruborum* Lév. in part; *P. bulbosum* Fr.].

N.E.—Bulmer; Scarboro' (Tr. iv.). Sessay (*'Nat.', Nov. '82). Cotcliffe, Northallerton (J. A. Wheldon). Egton Bridge (F.F., '02).

Mid W.—Carlton ('Nat.', Oct. '77). Beckwithshaw; Ilkley (Lees' Fl.). Skipton (Fl. Skipt.).

S.W.—Roche Abbey Valley; Lindrick Dale (Lees' Fl.). Hatfield (*'Nat.', Mar. '88).

S.E.—South Cave, and Ganstead (R. H. Philip).

On *Rubus* species.

1390. **Phragmidium subcorticatum** Schrk. [*P. mucronatum* Fr.; *Coleosporium miniatum* Pers.; etc.].

Common, and generally distributed throughout the county, on wild rose. Records numerous. More frequent in the æcidiospore and uredospore stages than in the teleutospore.

1391. **Phragmidium rubi-idæi** Wint. [*P. gracile* Berk.

N.E.—Scarboro' (Tr. iv.). Bilsdale (J. A. Wheldon).

S.W.—Askern (Lees' Fl.). On *Rubus idæus*.

XENODOCHUS Schlecht.

1392. **Xenodochus carbonarius** Schlecht. [*Lecythea poterii* Lév.; etc.]

N.E.—Seamer Carr, Scarboro' ('Nat.', Aug. '81). Hildenley (W.W.S.). Northallerton (J.A.W.). Stokesley (Exc.'96).

N.W.—Croft (J.A.W.).

Mid W.—Grass Woods, Grassington; Barden; Seavy Carr,

Stutton, near Church Fenton (Lees' Fl.). Gargrave; Skipton (Fl. Skipt.).

S.W.—Frizinghall (Lees' Fl.) Nr. Hebden Bridge (Fl. Hx.).

On *Poterium officinale.*

TRIPHRAGMIUM Link.

1393. **Triphragmium ulmariæ** (Schum.).

N.E.—Seamer Carr, etc., Scarboro' ('Nat.', Aug. '81). Arncliffe (Lees' Fl.). Bedale (J.A.W.).

Mid W.—Hambleton (Tr. ii.). Settle; Malham (Tr. iv.). Whitwell (Exc. '96). Bolton Woods. Buckden (*'Nat.', Sep. '04).

S.W.—Roche Abbey and Anston Crags (Lees' Fl.). Askern (*'Nat.', Oct. '93).

N.W.—Sedbergh (Exc. '02). Masham ('Nat.', Jan. '02). Grassington (J. E. Sutcliffe).

S.E.—Pocklington (F.F., '93). Goole (Thos. Bunker). Elloughton Dale (*'Nat.', Aug. '01). Newbald; Driffield (R. H. Philip).

On *Spiræa Ulmaria.*

UREDO Pers.

1394. **Uredo agrimoniæ** DC.

N.E.—Mulgrave Woods (F.F., 1900).

N.W.—Brignall (F.F., '04).

On *Agrimonia Eupatoria.*

1395. **Uredo polypodii** Pers. [*U. filicum Desm.*].

Mid W.—Penyghent, on *Cystopteris fragilis* (Lees' Fl.). Malham, on *C. fragilis* (Fl. Skipt.).

S.W.—Lawns House, Farnley, on cultivated *C. fragilis* (A. H. Pawson and H.T.S.).

CÆOMA Link.

1396. **Cæoma mercurialis** Pers. [*Uredo confluens* DC.].

N.E.—Castle Howard (*'Nat.', June '80).

Mid W.—Gisburn; Bolton Woods (Lees' Fl.). Addingham (Fl. Skipt.).

S.W.—Anston Crags (Lees' Fl.) Hebden Bridge (Fl. Hx.).

On *Mercurialis perennis.*

1397. **Cæoma orchidis** A. & S. [*Uredo.* Mart.].

N.E.—Scarboro', on *Listera cordata.* On *Orchis latifolia* (*' Nat.', Oct. '91).

N.W.—Masham, on *Gymnadenia conopsea, Orchis latifolia, Listera ovata* (' Nat.', May '93). Same locality later, on *Orchis maculata.*

ÆCIDIUM Pers.

1398 **Æcidium periclymeni** Schum.

N.E.—Scarboro'. Whitby (*' Nat.', Oct. '85).

S.W.—Nab Wood, Saltaire (Lees' Fl.).

On *Lonicera Periclymenum.*

1399. **Æcidium convallariæ** Schum.

Mid W.—Meanwood on garden lily; Fountains Abbey, on Solomon's Seal, *Polygonatum multiflorum* (Lees' Fl.).

1400. **Æcidium punctatum** Pers. [*Æ. quadrifidum* DC.].

S.W.—Bradford, on leaves of cultivated anemones in gardens (Lees' Fl.).

1401. **Æcidium leucospermum** DC.

N.E.—Scarboro'. Castle Howard (*' Nat.', June '80).

Mid W.—Bolton Woods (' Nat.', Aug. '81). Holden Wood, near Silsden (Fl. Skipt.).

S.W.—Newsholme Dean, Keighley (Lees' Fl.).

On leaves of *Anemone nemorosa.*

USTILAGINACÆ.

USTILAGINEÆ.

USTILAGO Pers.

1402. **Ustilago longissima** (Sow.).

S.W.—Goole (' Nat.', Aug. '81). Near Kiveton; Burton Grange, Barnsley; Bingley (Lees' Fl.). Steeton (Fl. Skipt.). Many places in the Calder Valley (Fl. Hx.).

N.E.—Seamer Carr, Scarboro'. Welham Park, and Castle Howard (F.F., '92).

S.E.—Pond Wood, Boynton (W.W.S.). Driffield. Houghton (Exc. '97). Hornsea (Exc. 1900).

On *Glyceria aquatica* and *G. fluitans;* mostly the former growing on canal and pond sides.

The mycelium of the fungus is perennial in the roots of the host plant.

1403. **Ustilago hypodytes** Fr.

S.W.—Saltaire, on grass leaves (Lees' Fl.).

Mid W.—Bolton Woods, on *Triticum repens*.

S.E.—Hall Bank, Beverley (R. H. Philip).

1404. **Ustilago avenæ** Jensen. [*U. carbo* Tul.; *U. segetum* Ditm.].

N.E.—Scarboro'; Bulmer. Stokesley (Exc. '99), On *Avena sativa*. Northallerton, on *Arrhenatherum avenaceum*.

S.W.—Hebden Bridge on *A. sativa*.

S.E.—Brough, on *A. sativa* (R. H. Philip).

Mid W.—Stutton, near Tadcaster (H. T. S.).

"Forming the black powdery mass in the inflorescence of oats known as 'smut' or 'slean.' Known wherever oats are cultivated, and before the simple but certain preventive methods were discovered Swingle estimates the annual loss due to this fungus at not less than 18,000,000 dollars for the United States alone." (Mass. Text-Book of Plant Diseases).

1405. **Ustilago hordei** Jansen.

Common on cultivated barley; forming a black mass in the grain attacked; not readily breaking up into black powder like most species of Ustilago. (Mass. Text-Book of Plant Diseases).

1406. **Ustilago grandis** Fr.

S.E.—Hornsea Mere, on *Phragmites communis* (R. H. P.).

1407. **Ustilago caricis** (Pers.).

N.E.—Scarboro'.

1408. **Ustilago olivacea** (DC.).

S.E.—Humber Bank, on *Carex riparia* (R. H. Philip).

1409. **Ustilago bromivora** Waldh.

S.W.—Hainworth; Bradford; Shipley; (Lees' Fl.). Lightcliffe (Fl. Hx.). On *Bromus mollis*.

1410. **Ustilago scabiosæ** (Sow.).

N.E.—Scarboro'.

Mid W.—Hawksworth.

On *Scabiosa arvensis*.

1411. **Ustilago utriculosa** (Nees.) Tul.

S.W.—Chellow Dene, near Bradford, on the ovaries of *Polygonum lapathifolium* '92 (H.T.S.). Near Bingley, on similar host (Fl. Skipt.).

1412. **Ustilago violacea** (Pers.). [*U. antherarum* Fr.].

N.E.—Scarboro'. On *Silene inflata* and *Lychnis diurna*, Staithes (*'Nat.', Ap. '98).

Mid W.—Dunnow. (Exc. '96). Bolton Woods (Fl. Skipt.).

S.W.—Many places about Hebden Bridge and Halifax (Fl. Hx.). Cadeby (F.F., '01).

N.W.—Sedbergh. Masham ('Nat.', Jan. '02). Brignall and Rokeby (F.F., '04).

Common, especially on the anthers of *L. diurna*. The only Yorkshire record of its being noted on any other Caryophyllaceous plant, *Silene inflata*, is from Scarboro'. It occurs on eight or nine others, and must have been overlooked.

1413. **Ustilago Kühneana** Wolff.

S.W.—Bradford; Saltaire; and Keighley (Lees' Fl.). Common in the fields around Halifax and Hebden Bridge, on *Rumex acetosa* (Fl. Hx.).

Mid W.—Newton-in-Bowland (Exc. '96).

1414. **Ustilago tragopogi** (Pers.). [*U. receptaculum* Fr.].

N.E.—Northallerton (J. A. Wheldon).

S.W.—Lightcliffe, near Hx. ('Nat.', June '94).

Mid W.—Bell Busk (J. E. Sutcliffe).

On *Tragopogon pratense*.

SPHACELOTHECA De Bary.

1415. **Sphacelotheca hydropiperis** (Schum.).

S.W.—Sandal Beat (F.F., '91). Salterhebble (Fl. Hx.). Stainborough (F.F., '97).

S.E.—Allerthorpe (F.F., '93). Houghton (Exc. '97).

Mid W.—Bingley Woods (Fl. Skipt.).

In the inflorescence of *Polygonum Hydropiper*.

TILLETIEÆ Tul.

TILLETIA Tul.

1416. **Tilletia tritici** Wint. [*T. caries* Tul.].

S.W.—Doncaster (Tr. iv.).

Mid W.—Healaugh and Wetherby (Lees' Fl.).

N.E.—Scarboro'. On cultivated wheat.

A destructive parasite converting the infected grain into a black mass, having a strong fishy odour when rubbed (Mass. Text-book of Plant Diseases). Too common in wheat growing districts.

1417. **Tilletia Rauwenhofi** Waldh.

S.W.—Doncaster (F.F., '91). (Gard. Chron., 1892, p. 302).

N.E.—Castle Howard (F.F., '92). Terrington Carr, '92.

S.E.—Everingham (F.F., '93).

On *Holcus mollis*.

1418. **Tilletia striæformis** (Westd.). [*Ustilago salveii* B. & Br.].

S.W.—Shipley ('Nat.', Aug. '81). Bolton, near Bradford, on leaves of *Triticum repens* (Lees' Fl.). Storthes Hall, near Huddersfield (F.F., '95). Elland and Hebden Bridge, on *Holcus lanatus* (Fl. Hx.).

UROCYSTIS Rabenh.

1419. **Urocystis occulta** (Wallr.).

S.W.—Saltaire, on leaves of *Triticum repens* (Lees' Fl.).

This smut is most abundant on rye, but also occurs less frequently on oats and barley, and has been met with on wheat in Australia, according to Wolff (Mass. Text-book of Plant Diseases).

1420. **Urocystis agropyri** (Preuss.). [*U. Fischeri* Körn.].

S.W.—Eccleshill, near Bradford (Grev. xiii., p. 52). Saltaire ('Nat.', Mar. '85). Hebden Bridge (Fl. Hx.). Cullingworth.

Mid W.—Hawksworth (Lees' Fl.).

On *Carex glauca*.

1421. **Urocystis colchici** (Schlecht).

Mid W.—York '80 (J. A. Wheldon).

On *Colchicum autumnale*.

1422. **Urocystis anemones** (Pers.). [*U. pompholygodes* Lév.].

On *Anemone nemorosa*, *Ranunculus repens*, *R. acris*, *R. bulbosus*, etc. Most frequent on *R repens*.

Common. Records numerous for all the county divisions.

1423. **Urocystis violæ** (Sow.).

N.E.—Scarboro'. On *Viola sylvatica*. Northallerton.

S.W.—Hainworth, near Keighley (Lees' Fl.).

S.E.—Buck Hill Wood, Cottingham (R. H. Philip).

1424. **Urocystis primulicola** Mag.

Mid W.—Malham, on *Primula farinosa* (Fl. Skipt.).

MELANOTÆNIUM De Bary.

1425. **Melanotænium endogenum** De Bary.

N.E.—Scarboro' ('Nat.', Oct. '91). On *Galium verum*.

A remarkable species of Ustilagineæ.

SOROSPORIUM Rud.

1426. **Sorosporium scabies** Fisch de W. [*Tubercinia scabies* Berk.].

N.E.—Bulmer (Tr. iv.). Scarboro'.

S.W.—Saltaire (Tr. iv.).

"This fungus forms large olive scabs or rough patches on the surface of nearly full-grown potatos" (Mass. Text-book of Plant Diseases).

ASCOMYCETES.

PYRENOMYCETES.

HYPOCREACEÆ De Not.

HYPOCREOIDEÆ.

CLAVICEPS Tul.

1427. **Claviceps purpurea** (Fr.). [*Cordyceps*. Fr.] Ergot.

Mid W.—Carleton ('Nat.', Oct. '77). Camblesforth; Wetherby (Lees' Fl.). Harewood; East Keswick (F.F., '98).

N.E.—Scarboro', on *Lolium perenne* and *Anthoxanthum odoratum*.

S.W.—Askern; Roche Abbey Valley, common on *Dactylis glomerata;* Saltaire; Bingley, etc. (Lees' Fl.). Copley; Southowram; Luddenden Dean, on *Glyceria fluitans* (Fl. Hx.).

S.E.—Escrick, on rye.

"Often abundantly developed in the ears of various cereals, especially rye" (Mass. Text-Book of Plant Diseases, p. 122 fig. 22).

CORDYCEPS Fr.

1428. **Cordyceps entomorhiza** (Dicks.). [*Torrubia.* Tul.].

N.E.—Castle Howard, on dead pupæ (Grev. xv. 2).

S.W.—Newsholme Dean, on a dead pupa (Lees' Fl.). Near Hebden Bridge, on dead fly among moss (Fl. Hx.).

N.W.—Masham, on dead pupæ partially buried in soil ('Nat.', May '03).

1429. **Cordyceps militaris** (L.) [*Torrubia.* Tul.].

S.W.—Halifax, 1789 (Bolton, Tab. 128).

On dead pupæ, beetles, etc., among grass in gardens, fields, etc., or humus in woods. Common. Records numerous for each county division.

1430. **Cordyceps ophioglossoides** (Ehr.).

N.E.—Thirsk (*'Nat.', Nov. '82). Raincliff Wood, Scarboro', parasitic on *Elaphomyces muricatus* under firs.

S.E.—Blackwood near Selby, parasitic on *E. granulatus* (F.F., '84, also F.F., '96).

1431. **Cordyceps capitata** (Holmsk.) [*Sphæria agariciformis* Bolt. *Torrubia.* Tul.].

S.W.—Ramsden Wood, Halifax, 1788 (Bolton, Tab. 130).

EPICHLOË Fr.

1432. **Epichloe typhina** (Pers.).

N.E.—Bulmer (Tr. iv.). Northallerton, '83 (J. A. Wheldon). Stokesley (Exc., '99). Helmsley, '03 (H. Slater).

Mid W.—Aketon Bog, Spofforth (*'Nat.', Aug. '80). Boston Spa. Hawksworth (Lees' Fl.).

S.W.—Shipley Glen; Bingley, etc. (Lees' Fl.). Near Hebden Bridge (Fl. Hx.).

N.W.—Leyburn (J. A. Wheldon). Masham ('Nat.', Jan. '02). Sedbergh (Exc., '02).

S.E.—Market Weighton (Exc., '97). Whitby.

On living leaves of grass: *Dactylis*, *Holcus*, *Poa*, *Phleum*, etc. A peculiar fungus strangling the grass on which it is parasitic (Mass. Text-Book of Plant Diseases, p. 125, f. 23).

HYPOCREA Fr.

1433. **Hypocrea rufa** (Pers.) [*Sphæria viridis* Bolt.].

S.W.—Halifax, 1789 (Bolton, Tab. 121, fig. 2).

Common on wood, especially on cut surfaces, in the conidia (= *Trichoderma viride*) stage; much less so in the ascigerous condition. A regular frequenter of woodyards. Records many for each county division.

1434. **Hypocrea gelatinosa** (Tode).

Mid W.—Harewood (F.F., '98).

1435. **Hypocrea farinosa** B. & Br.

N.E.—Scarboro', on dead wood.

1436. **Hypocrea pulchra** (Wint.).

N.E.—Terrington, on cow dung (Grev. xv. 4).

1437. **Hypocrea riccioidea** Berk.

S.W.—Ramsden Wood, Halifax, Feb. 1790, on dead branches close by the brook (Bolton, Tab. 182 = *Sphæria riccioidea*).

"On willow. Very rare. I have French specimens from Dr. Montague" (Berk. Outl., p. 383).

POLYSTIGMA DC.

1438. **Polystigma rubrum** (Pers.).

N.E.—Scarboro'; Thirsk, on living leaves of *Prunus domestica* and *P. spinosa* (Grev. xiv., Mar. '86).

"A parasite often proving injurious to plum and almond trees by destroying the foliage. It also attacks the sloe and white-thorn" (Mass. Text-Book of Plant Diseases, p. 135, fig. 25).

NECTRIÆ.

SPHÆROSTILBE Tul.

1439. **Sphærostilbe gracilipes** Tul.

S.W.—Hebden Bridge, on oak twigs, both conidial (= *Stilbum*) and ascigerous conditions (Fl. Hx.).

NECTRIA Fr.

1440. **Nectria cucurbitula** Fr.

N.E.—Bulmer (Tr. iv.) Scarboro', on dead branches.

1441. **Nectria inaurata** B. & Br.

N.E.—Scarboro', almost covering the trunk of dead holly.

1442. **Nectria cinnabarina** (Tode).

Very common on branches of beech, sycamore, lime, horse-chestnut, etc. Mr. J. E. Sutcliffe, Bradford, met with it on *Daphne Mezereum* at Gilstead, July 1903. Distribution general. Records numerous for each county division.

"The fungus often lives as a saprophyte, but is often a wound parasite" (Mass. Text-Book of Plant Diseases p. 131).

1443. **Nectria ribis** (Tode).

N.E.—Scarboro', on red currant bush.

1444. **Nectria punicea** (Knz. & Schm.).

S.E.—Boynton (W.W.S.).

1445. **Nectria coccinea** (Pers.).

S.W.—Elland; Hebden Bridge (Fl. Hx.). Rockley, '97.

Mid W.—Esholt, on dying tree (Lees' Fl.).

N.E.—Scarboro', on dead twigs.

N.W.—Masham, on decorticated branches, '02.

1446. **Nectria ditissima** Tul.

N.E.—Scarboro', on branches of cultivated apple trees, causing the destructive disease called the apple-tree canker. "This parasite by no means confines its attacks to the apple, but is equally common on the beech, and, according to Hartig, also invades oak, hazel, and many other trees" (Mass. Text-Book of Plant Diseases, p. 127, fig. 24).

1447. **Nectria aquifolii** Berk.

N.E.—Scarboro', on dead holly ('Nat.', Aug. '81).

Mid W.—Bolton Woods, on dead holly (Lees' Fl.).

1448. **Nectria Ralfsii** B. & Br.

S.W.—Goole ('Nat.', Sep. '81).

1449. **Nectria mammoidea** Phil. & Plow.

N.E.—Scarboro', on stump and dead stems of *Ulex* ('Nat.', Sep. '81).

Mid W.—Hawksworth ('Nat.', Sep. '81). Esholt (Lees' Fl.). Harewood (F.F., '98).

S.W.—Steeton and Bingley (Lees' Fl.). Askern (* 'Nat.', Oct. '93). Huddersfield (F.F., '95). Elland; Hardcastle (Fl. Hx.). On bark and dead wood.

HYPOMYCES Fr.

1450. **Hypomyces chrysospermus** Tul.

Conidial form (=*Sepedonium chrysospermum*).

Common in the conidial condition as a parasite on various *Boleti* and *Agaricæ*. Records for each county division numerous. Much rarer in the ascigerous, or fully developed form.

1451. **Hypomyces lateritius** Tul.

N.E.—Scarboro', parasitic on *Lactarius deliciosus* (Tr. ix.).

1452. **Hypomyces rosellus** (A. & S.).

Mid W.—Beckwithshaw, parasitic on *Stereum* (F.F., '81). Stainer Wood near Selby, on *Poria medulla-panis* ('Nat.', Ap. '03).

N.E.—Scarboro', on *Stereum hirsutum*. Mulgrave.

S.W.—Owston (F.F., '99). Melton Wood (F.F., '01).

1453. **Hypomyces ochraceus** (Pers.). Tul.

S.W.—Melton Wood, on putrid fleshy agaric (F.F., '01).

Hypomyces aurantius (Pers). Tul.

N.E.—Scarboro', on various species of *Agaricæ* and *Polyporæ* (Grev. xv. p. 6).

S.W.—Elland, on *P. versicolor* (Fl. Hx.). Sutton (F.F., '01).

Mid W.—Bolton Woods (Lees' Fl.). Harewood (F.F., '98).

1455. **Hypomyces torminosus** (Mont.) Tul.

S.W.—Hebden Bridge, parasitic on the gills of *Lactarius torminosus* (Fl. Hx.).

1456. **Hypomyces terrestris** Plow. and Boud.

S.W.—Luddenden Dean, on the ground in a wood, where some fleshy toadstool had decayed (Fl. Hx.).

ELEUTHEROMYCES Fckl.

1457. **Eleutheromyces subulatus** (Tode).

N.E.—Scarboro', on *Russula nigricans*.

BYSSONECTRIA Karst.

1458. **Byssonectria bryophila** Rob. [*Nectria*. Sacc.].

S.W.—Hebden Bridge, on moist, partially decayed *Sphagnum* in greenhouse (Fl. Hx.).

DIALONECTRIA Sacc.

1459. **Dialonectria sanguinea** (Sibth.) [*Nectria*. Fr.].

S.W.—Bell Bank, near Bingley, on putrid wood, 1786. (Bolton, Tab. 121, f. 1). Shipley Glen, on dead twigs (Lees' Fl.). Bingley (Fl. Skipt.). Hebden Bridge, on elm (Fl. Hx.).

N.E.—Scarboro', on *Hypoxylon*. Shotley Bridge (J.A.W.).

Mid W.—Studley Royal (F.F., '81). Woodhall Bridge '98.

N.W.—Masham, on an abnormal growth on branch of apple tree. Rokeby (F.F., '04).

1460. **Dialonectria peziza** (Tode). [*Nectria*. Fr.].

N.E.—Scarboro', on rotten wood ('Nat.', Aug. '81).

S.E.—Boynton (W.W.S.).

Mid W.—Holden Wood, on dead holly (Lees' Fl.).

S.W.—Near Hebden Bridge, on bark (Fl. Hx.).

1461. **Dialonectria episphæria** (Tode). [*Nectria*. Fr.].

N.E.—Castle Howard (*'Nat.', June '80). Scarboro', on *Hypoxylon* ('Nat.', Aug. '81). Mulgrave Woods (F.F., 1900).

S.E.—Pond Wood, Boynton (W.W.S.).

S.W.—Walshaw, on *Valsa turgida* = *V. pustulata* (Fl. Hx.). Owston and Campsall (F.F., '99).

N.W.—Masham, in the Burn Valley, on an effused, decaying Pyrenomycete ('Nat.', May '03).

1462. **Dialonectria aurea** Sacc.). [*Sphæria aurea* Grev.; *Nectria aurea* B. & Br.].

N.E.—Mulgrave Woods (F.F., 1900).

N.W.—Masham, on rotten chip ('Nat.', Jan. '02).

1463. **Dialonectria affinis** Sacc. [*Nectria*. Cke.].

S.W.—Sutton (F.F., '99).

1464. **Dialonectria vermispora** (Mass. & Crossl.).

[*Calonectria vermispora* Mass. & Crossl. 'Nat.', Jan. '04].

S.W.—Hardcastle, near Hebden Bridge, on fallen, decorticated trunk.

LASIONECTRIA Sacc.

1465. **Lasionectria Rousseliana** (Mont.).

N.E.—Bulmer, on dead box trees.

1466. **Lasionectria funicola** Berk. [*Calonectria*. B. & Br.

S.W.—Cadeby (F.F., '01).

1467. **Lasionectria hirta** (Blox.). [*Nectria hirta* Blox.; *Calonectria hirta* Sacc.].

S.W.—Hebden Bridge, on wood rails (Fl. Hx.).

GIBBERELLA Sacc.

1468. **Gibberella pulicaris** (Fr.).

N.E.—Scarboro', on dead elder-branches.

1469. **Gibberella cyanogena** (Desm.).

S.W.—Salterhebble, on dead cabbage-stalks (Fl. Hx.).

PSEUDONECTRIÆ.

MELANOSPORA Corda.

1470. **Melanospora chionea** (Fr.).

N.E.—Bulmer, on dead pine-leaves.

1471. **Melanospora gigantea** (Mass. & Crossl.). [*Sphæroderma giganteum* Mass. & Crossl.].

S.W.—Cadeby, on decaying grass along with *Chætomium elatum* (F.F., '01, 'Nat.', Nov. 1901).

ACROSPERMUM Tode.

1472. **Acrospermum compressum** Tode.

N.E.—Scarboro', on dead stems of *Heracleum*.

XYLARIÆ.

XYLARIA Hill.

1473. **Xylaria polymorpha** (Pers.). Grev.

S.W.—Halifax (Bolton, unpublished Tab. 213 in Brit. Mus. Nat. Hist. Coll.). Several places about Halifax (Fl. Hx.). Hugsett Wood (F.F., '97). Sutton and Owston (F.F., '99). Potridings Wood (F.F. '01).

N.E.—Bulmer; Scarboro' (Tr. iv.). Rievaulx (F.F., '03).

Mid W.—Studley Royal (F.F., '81). Ingleton; Wetherby; and Harewood (Lees Fl.). Bramham (F.F. '88). Bolton Woods (Fl. Skipt.).

S.E.—Pocklington (F.F., '93).

N.W.—Rokeby (F.F., '04).

Confined to dead, rotting stumps.

1474. **Xylaria corniformis** Fr.

N.E.—Bulmer (Tr. iv.). Mulgrave Woods (F.F., 1900).

1475. **Xylaria digitata** (L.) Grev.

N.E.—Bulmer (Tr. iv.).

1476. **Xylaria vaporaria** Berk.

N.E.—Scarboro', in cucumber frames. Often forming dense masses in warm frames, mushroom beds, etc.

1477. **Xylaria filiformis** (A. & S.) Fr.

N.E.—Scarboro', on dead leaves.

1478. **Xylaria carpophila** (Pers.) Fr.

N.E.—Bulmer (Tr. iv.). Raincliff Wood, Scarboro'. Mulgrave Woods (F.F., 1900).

Mid W.—Jackdaw Crag; Sutton; Boston Spa (Lees' Fl.).

S.W.—Owston (F.F., '99).

On decaying beech mast.

1479. **Xylaria hypoxylon** (L.).

S.W.—Halifax 1775 (Bolton's Cat. n. 474; Hist. Fung. Tab. 129).

Common on stumps, prostrate trunks, etc. Distribution general. Records most numerous for each county division.

THAMNOMYCES Ehrh.

1480. **Thamnomyces hippotrichoides** (Sow.).

[*Sphæria.* Sow.; *Xylaria.* Sacc., etc.]

N.E.—Scarboro', on cocoanut fibre (Grev. xv. Dec. '86).

PORONIA Willd.

1481. **Poronia punctata** Fr.

S.W.—Halifax 1789. "On dry dunghills in winter and spring." (Bolton Tab. 127 f. 2=*Sphæria truncata*). Sutton near Askern, on horse dung in fields. Ravensthorpe (H. Parkinson).

N.E.—Scarboro', in horse dung.

S.E.—Hedon, and Paull, near Hull (T. Petch).

1482. **Poronia leporina** (Ellis & Everh.).

S.W.—Cadeby, on rabbit dung (F.F., '01).

"This species is new to the European Flora, being previously only known from the United States, where it occurs on a similar matrix" ('Nat.,' Nov. '01).

Annals of Botany, xvi. pp. 74-5, pl. v. figs. 121-123.

USTULINA Tul.

1483. **Ustulina vulgaris** Tul.

S.W.—Elland, 1790, on the stump of an old ash tree (Bolton Tab. 181. *Sphæria deusta*). Huddersfield '98 (A. Clarke). Ainley Wood, Elland, on old stump, Mar. '99.

N.E.—Castle Howard (Tr. iv.) Scarboro.'

Mid W.—On the Cowthorpe oak stump, 1880 (Lees' Fl.). Studley Royal (F.F. '81). Bolton Woods, '82 (H.T.S.).

S.E.—Boynton (W.W.S.).

NUMMULARIA Tul.

1484. **Nummularia Bulliardi** Tul.

N.E.—Castle Howard (Tr. iv.). (* 'Nat., June '80). Scarboro.' On dead wood ('Nat., Sept. '81).

DALDINIA De Not.

1485. **Daldinia concentrica** (Bolt.). [*Sphæria*. Bolton; *Hypoxylon*. Grev.]

S.W.—"On old thorns in the park at Fixby Hall; it has also been gathered near Elland, 1790. (Bolton Tab. 180). On old ash logs, 1892, Lightcliffe; on logs in wood yard, Hebden Bridge. (Fl. Hx.). Lindholme, Hatfield Moor; Goole; Thorne Waste (Lees' Fl.). Potridings Wood (F.F. '01). Dewsbury, on dead ash trees (P. F. Lee).

Mid W.—Wetherby (Tr. ix.). Stainer Wood, 1902, Selby, on ash tree. Bolton Woods (Fl. Skipt.).

S.E.—Pocklington (F.F., '93). Hull (Philip and Warnes).

HYPOXYLON Bull.

1486. **Hypoxylon coccineum** Bull.

N.E.—Scarboro', on beech branches ('Nat.', Sep. '81).

1487. **Hypoxylon fuscum** (Pers.) Fr.

S.W.—Halifax, 1789, common on hazel branches (Bolton, Tab. 123 f. 1 = *Sphæria tuberculosa*). Steeton (Lees' Fl.).

N.W.—Sedbergh (Tr. iv.). Burn Valley, near Masham, on hazel branches ('Nat.', May '03). Rokeby (F.F., '04).

N.E.—Castle Howard (* 'Nat.', June '80). Scarboro' ('Nat.', Sep. '81). Hackness (Exc. '97). Mulgrave Woods (F.F., 1900).

S.E.—Boynton (W.W.S.).

Mid W.—Ingleton (Tr. iv.). Wetherby (Tr. ix.). Studley Royal (F.F., '81). Gisburn; Settle; Bolton Woods; Baildon (Lees' Fl.). Barnoldswick (Fl. Skipt.). Stainer Wood, Selby, '04. On hazel, hawthorn, etc.

1488. **Hypoxylon multiforme** (Fr.).

N.E.—Scarboro', on dead birch ('Nat.', Sep. '81).

S.W.—Pond Wood, Boynton, on birch (W.W.S.).

Mid W.—Seven Arches, Adel, on dead birch-bark (Lees' Fl.). Stainer Wood, Selby.

1489. **Hypoxylon cohærens** (Pers.).

Mid W.—Sweep Wood, Wetherby (Lees' Fl.).

1490. **Hypoxylon marginatum** (Schum.).

N.E.—Scarboro', on dead wood.

1491.—**Hypoxylon atropurpureum** (Fr.).

S.W.—Near Hebden Bridge, on old stumps (Fl. Hx.).

1492.—**Hypoxylon rubiginosum** (Pers.).

S.E.—Low Wood, Boynton (W.W.S.).

S.W.—Melton Wood, on dead branches (F.F., '01).

N.E.—Egton Bridge (F.F., '02).

1493. **Hypoxylon serpens** (Pers.).

S.E.—Boynton (W.W.S.).

N.E.—Scarboro', on dead leaves.

1494. **Hypoxylon udum** (Pers.). [*Sphæria uda* Pers. *Sphæria confluens*, Tode].

S.W.—Roche Abbey Valley (Lees' Fl.).

DOTHIDEACEÆ.

DOTHIDEOIDEI.

PHYLLACHORA Fckl.

1495. **Phyllachora ulmi** (Duv.). [*Dothidea*. Fr.].

S.W.—Roche Abbey Valley (Lees' Fl.).

N.E.—Scarboro', on living elm-leaves.

1496. **Phyllachora trifolii** (Pers.). [*Dothidea*. Fr.].

N.E.—Bulmer (Tr. iv.). Scarboro', on living clover-leaves.

S.W.—Bingley (Tr. iv.).

1497. **Phyllachora heraclei** (Fr.).

N.E.—Scarboro', on living stems of *Heracleum*.

1498. **Phyllachora graminis** (Fr.). [*Dothidea*. Fr.].

Mid W.—Gordale (' Nat.', Sep. '81). Ilkley (Lees' Fl.).

S.W.—Saltaire (' Nat.', Sep. '81). Bingley (Lees' Fl.). Hardcastle, on *Deschampsia cæspitosa* (Fl. Hx.).

S.E.—Kirkham Hill (W.W.S.).

N.E.—Scarboro'. Bulmer. Egton Bridge (F.F., '02). Helmsley (F.F., '03). On living grass stems and leaves.

N.W.—Masham, on *D. cæspitosa*. Rokeby, on living leaves of *Brachypodium* (F.F., '04).

1499.—**Phyllachora junci** Fckl. [*Dothidea*. Fr.].

Mid W.—Baildon Moor, on rush stems (Lees' Fl.).

S.W.—Bingley (Fl. Skipt.), Hebden Bridge (Fl. Hx.).

N.E.—Scarboro' (W.W.S.). Filey, '03 (J. T. Jolley, Hx.).

N.W.—Masham (' Nat.', Jan. '02). Rokeby (F.F., '04).

Not uncommon on stems of *Juncus* sp.

1500. **Phyllachora pteridis** Rob. [*Dothidea*. Fr.].

S.W.—Wakefield, in fronds of *Pteris aquilina* (Grev. xv. p. 36). Several places near Halifax and Hebden Bridge (Fl.Hx.).

N.E.—Scarboro' (' Nat.', Sep. '81). Mulgrave Woods (F.F., 1900). On living fronds of *P. aquilina*.

1501. **Phyllachora betulina** (Fr.). [*Dothidea*. Fr.; *Dothidella*. Sacc.].

Mid W.—Church Fenton, on birch leaves (Lees' Fl.).

S.W.—Roche Abbey Valley (Lees' Fl.).

DOTHIDEA Fr.

1502. **Dothidea ribesia** (Pers.).

S.E.—Boynton (W.W.S.).

N.E.—Bulmer, on stem of *Ribes rubrum*.

RHYTISMOIDEI.

RHYTISMA Fr.

1503. **Rhytisma acerinum** (Pers.).

Common on the living leaves of sycamore *Acer pseudoplatanus*; less so on *A. campestris*. Distribution general. Records numerous for each county division with the exception

of S.E. which has hitherto only one (Hull district). Of a parasitic nature, forming large black patches which "when present in considerable numbers on almost every leaf of the tree, do considerable injury by preventing the leaves from performing their proper functions" (Mass. Text-Book of Plant Diseases, pp. 142-3, fig. 28).

1504. **Rhytisma punctatum** (Pers.).

N.E.—Scarboro', on living sycamore leaves. Mulgrave Woods (F.F., 1900).

S.W.—Roche Abbey Valley (Lees' Fl.). Askern (F.F., '99). Anston (T. Gibbs).

N.W.—Masham ('Nat.', Jan. '02).

In this species the black scab or crust is not continuous as in *R. acerinum*, but consists of closely crowded small pieces.

1505. **Rhytisma salicinum** (Pers.).

Mid W.—Church Fenton, on sallow leaves (Lees' Fl.).

N.E.—Scarboro'. Bulmer. On living willow-leaves.

1506. **Rhytisma andromedæ** (Pers.).

S.W.—Thorne Waste ('Nat.', Aug. '81). Goole Moor, abundant (Lees' Fl.). Hatfield (Lees' Fl. Add.). Crowle Moor, Goole (T. Bunker).

On living leaves of *Andromeda polifolia*.

STIGMATEOIDÆ.

HYPOSPILA Fr.

1507. **Hypospila bifrons** (DC.).

N.E.—Scarboro'. Bulmer, on dead oak-leaves.

1508. **Hypospila ceuthosporioides** (Berk.). [*Sphæria ceuthosporoides* Berk.].

S.W.—Roche Abbey, on cherry laurel (Lees' Fl.).

STIGMATEA Fr.

1509. **Stigmatea Robertiani** Fr.

N.E.—Scarboro' (Tr. iv.). Bulmer.

S.W.—Saltaire (Tr. iv.). Bingley (Lees' Fl.). Crimsworth Dean (Fl. Hx.). Hebden Bridge.

Mid W.—Gordale (Lees' Fl.). Woodhall Bridge (F.F., '98). Bolton Woods (Fl., Skipt.).

S.E.—Botanical gardens, Boynton (W.W.S.).

Not uncommon on living leaves of *Geranium Robertianum*.

1510. **Stigmatea polygonorum** Fr.

S.E.—Pond Wood, Boynton (W.W.S.).

S.W.—Near Hebden Bridge, on leaves of *Polygonum Bistorta* ('Nat.', June '94).

1511. **Stigmatea ostruthii** (Fr.) [*Sphærella.* Fr.].

N.E.—Scarboro'. Bulmer ('Nat.', Sep. '81).

Mid W.—Bolton Woods (Lees' Fl.).

On living leaves of *Angelica sylvestris*.

MELOGRAMMÆ.

MELOGRAMMA Fr.

1512. **Melogramma ferrugineum** (Pers.). [*Diatrype ferruginea* Fr.].

Mid W.—Studley Royal. on hazel branches (F.F., '81).

DIATRYPEÆ.

DIATRYPE Fr.

1513. **Diatrype verrucæformis** (Ehrb.).

Mid W.—Micklefield (F.F., '81).

N.E.—Scarboro', on fallen branches.

1514. **Diatrype favacea** Fr.

Mid W.—Selby, on birch.

1515. **Diatrype aspera** Fr.

S.E.—Pond Wood, Boynton (W.W.S.).

1516. **Diatrype quercina** (Pers.).

N.E.—Castle Howard (Tr. iv.). Scarboro'.

Mid W.—North Deighton, Wetherby (Lees' Fl.).

On fallen oak branches and twigs.

1517. **Diatrype discoidea** Cke. & Pk. [*Diatrypella.* De N.].

S.W.—Burghwallis, on dead birch (F.F., '99).

1518. **Diatrype stigma** Fr.

Mid W.—Studley Royal (F.F., '81).

S.W.—Saltaire, on dead hawthorn (Lees' Fl.). Elland, on dead twig (Fl. Hx.).

N.E.—Scarboro', on dead beech wood.

1519. **Diatrype disciformis** Fr.

S.W.—Bingley, on dead branches (Lees' Fl.).

N.E.—Scarboro', on fallen branches of *Alnus glutinosa*. Mulgrave Woods, on dead beech (F.F., 1900).

Mid W.—Aberford, on dead beech-twig (H.T.S.).

N.W.—Rokeby, common on dead beech wood (F.F., '04).

1520. **Diatrype bullata** (Hoffm.). Fr.

S.W.—Halifax, 1789. On the bark of fallen and decaying branches of trees (Bolton, Tab. 122, f. 1.=*Sphæria depressa*).

1521. **Diatrype corniculata** (Ehrb.). B. & Br.

S.E.—Low Wood, Boynton (W.W.S.).

1522. **Diatrype dryophila** Curr.

N.E.—Terrington, on oak branches (G.M.).

1523. **Diatrype cincta** B. & Br.

S.W.—Elland and Heptonstall ('Nat.', June '94).

N.E.—Scarboro', on dead beech-branches.

VALSEÆ.

VALSA Fr.

1524. **Valsa prunastri** (Pers.) [*Sphæria.* Fr.].

N.E.—Hackness, Scarboro' ('Nat.', Sep. '81). On branches of *Prunus Padus*.

S.E.—Sands Wood, Boynton (W.W.S.).

S.W.—Sutton (F.F., '99).

1525. **Valsa stellulata** Fr.

N.E.—Scarboro', on branches of *Acer campestre*.

1526. **Valsa nivea** (Hoffm.).

N.E.—Terrington, on poplar (G.M.).

1527. **Valsa leucostoma** Fr.

S.W.—Gibson Wood, Heptonstall ('Nat.', June '94).

1528. **Valsa ceratophora** Tul.

N.E.—Scarboro', on oak.

1529. **Valsa syngenesia** Fr. [*Diaporthe.* Fckl.].

S.E.—Hollokill Wood, Boynton, on elder (W.W.S.).

1530. **Valsa leiphæmioides** B. & Curt.

N.E.—Raincliff Wood, Scarboro', on oak branches.

1531. **Valsa populina** Fckl.

N.E.—Terrington and Thirsk, on poplar (Grev. xv. p. 72).

1532. **Valsa pustulata** Awd. [*V. turgida* Fr.

S.W.—Walshaw, on twig (Fl. Hx.).

1533. **Valsa quaternata** Fr.

Mid W.—Wetherby, on beech in woodyard (Lees' Fl.).

N.E.—Scarboro', on beech branches.

1534. **Valsa dissepta** Fr. [*Quaternaria*. Tul.].

S.W.—Norland, on fallen elm-branch (Fl. Hx.).

1535. **Valsa pulchella** (Pers.) Fr.

Mid W.—Linn Gill (near Ribblehead), on branches of *Prunus Padus* (Lees' Fl.).

1536. **Valsa corylina** Nitschke.

N.E.—Scarboro', on hazel.

1537. **Valsa hypodermia** Fr. [*Cryptospora*. Fckl.; *Cryptosporella*. Sacc.].

N.E.—Terrington, on elm branches (Grev. xv. p. 177).

S.E.—Boynton (W.W.S.).

1538. **Valsa suffusa** Fr. [*Cryptospora*. Tul.].

N.E.—Scarboro' ('Nat.', Sep. '81).

1539. **Valsa tiliæ** Fr. [*Cryptospora*. Tul.].

N.E.—Scarboro'. Castle Howard ('Nat.', Sep. '81).

1540. **Valsa leiphæmia** Fr. [*Diaporthe*. Sacc.

N.E.—Scarboro' ('Nat.', Sep. '81).

Mid W.—Meanwood (Tr. ix.).

S.W.—Bingley, on dead oak-twigs (Lees' Fl.).

S.E.—Boynton (W.W.S.).

1541. **Valsa decedens** Fr. [*Diaporthe*. Fckl.].

Mid W.—Barden, Bolton Woods, '98 (H.T.S.).

1542. **Valsa cratægi** Curr. [*Diaporthe*. Fckl.].

N.E.—Scarboro', on hawthorn.

1543. **Valsa platanoides** Berk. [*Sphæria*. Pers. *Pseudovalsa*. C. & De. N.; *Calospora*. Neissl.].

N.E.—Scarboro' ('Nat.', Sep. '81). Terrington, on holly (Grev. xv., p. 117).

S.W.—Saltaire, on sycamore twigs (Lees' Fl.).

MELANCONIS Tul.

1544. **Melanconis Alni** Tul.

N.E.—Scarboro', on alder twigs.

1545. **Melanconis Tiliæ** Tul. [*Sphæria ampullacea* Pers.; *Hercospora*. Fr., etc.].

S.E.—Pond Wood, Boynton (W.W.S.).

N.E.—Scarboro', on lime twigs.

PSEUDOVALSA C. & De N.

1546. **Pseudovalsa lanciformis** (Fr.).

N.E.—Scarboro', on *Betula alba* (Grev. xv. p. 120).

1547. **Pseudovalsa longipes** Sacc. [*Melanconis*. Tul.].

N.E.—Scarboro'.

FENESTELLA Tul.

1548. **Fenestella tetrarupha** (B. & Br.).

S.W.—Elland Park Wood, on bark (Fl. Hx.).

1549. **Fenestella vestita** (Fr.) Sacc.

N.E.—Scarboro', on beech twigs.

EUTYPÆ.

EUTYPA Tul.

1550. **Eutypa Acharii** Tul.

N.E.—Scarboro', on dead beech-twigs.

1551. **Eutypa aspera** Fckl. [*Valsa*. Nitschke].

N.E.—Scarboro', on dead beech-twigs, and wood.

1552. **Eutypa spinosa** Tul. [*Valsa*. Nitschke].

N.E.—Scarboro', on dead ash-branches ('Nat.', Sep. '81).

S.E.—Low Wood, Boynton (W.W.S.).

1553. **Eutypa lata** Tul. [*Sphæria. Pers.*].

S.W.—Shipley Glen (Lees' Fl.). Hebden Bridge (Fl. Hx.). Stainborough (F.F., '97). Sutton; Campsall; and Owston (F.F., '99). Cadeby; Melton; and Potridings Wood (F.F., '01).

N.E.—Scarboro', on dead ivy stem. Mulgrave Woods (F.F., 1900). Egton Bridge (F.F., '02). Helmsley (F.F., '03).

S.E.—Boynton (W.W.S.). Hornsea (Hall S. & F.N.C.).

N.W.—Masham ('Nat.', Jan. '02). Rokeby (F.F., '04).

Thinly encrusting wood and dry branches. Common.

1554. **Eutypa flavo-virens** (Hoffm.) Tul.
N.E.—Scarboro' ('Nat.', Sep. '81). On *Prunus communis*.

1555. **Eutypa ulicis** (Fr.) Berk.
N.E.—Langridge, on furze (Grev. xv. p. 121).

DIAPORTHE Nitschke.

1556. **Diaporthe samaricola** Plow.
N.E.—Terrington, on samara of ash (Grev. xvi. p. 12).

1557. **Diaporthe ambiens** Fckl.
N.E.—Scarboro' ('Nat.', Sep. '81).

Var. **mali** Sacc.
N.E.—Terrington, on *Pyrus malus* (Grev. xv. p. 71).

Var. **coryli** Sacc.
N.E.—Thirsk, on *Corylus Avellana* (Grev. xv. p. 71).

Var. **populinus** Fckl.
N.E.—Thirsk, on poplar (Grev. xv.).

1558. **Diaporthe rudis** Nitschke.
N.E.—Scarboro', on laburnum branches.

1559. **Diaporthe sarothamni** Awd.
N.E.—Scarboro', on *Sarothamnus* (Grev. xvi. p. 13).

1560. **Diaporthe rostellata** Nits. [*Sphæria*. Fr.].
N.E.—Scarboro' (Tr. iv.; Grev. xvi. p. 13). On *Rubus*.
S.W.—Bingley (Lees' Fl.). Hebden Bridge (Fl. Hx.).
Mid W.—Harewood, on dead bramble (F.F., '98).

1561. **Diaporthe resecans** Nitschke.
N.E.—Bulmer. Terrington (Grev. xvi. p. 13).
On *Syringa vulgaris*.

1562. **Diaporthe scobina** Nitschke.
N.E.—Scarboro', on branches of *Fraxinus excelsior*.

1563. **Diaporthe blepharodes** B. & Br.
N.E.—Terrington, on sycamore (Grev. xvi. p. 14).

1564. **Diaporthe striæformis** Fckl. [*Dothidea*. Fr.].
N.E.—Scarboro', on dead herb. stems ('Nat.,' Sep. '81).

1565. **Diaporthe lirella** Fckl. [*Sphæria*. M. & N.].
N.E.—Scarboro' ('Nat.', Sep. '81; Grev. xvi. p. 14).
On *Spiræa Ulmaria*.

CUCURBITARIEÆ.

NITSCHKIA Otth.

1566. **Nitschkia cupularis** Karst. [*Sphæria cupularis* Pers.; *Cucurbitaria cupularis* Cke.].

MID W.—Ingleton.

N.W.—Sedbergh (Tr. iv.).

S.E.—Boynton (W.W.S.). On dead branches.

OTTHIA Nitschke.

1567. **Otthia pruni** Fckl.

N.E.—Scarboro', on *Prunus communis*.

CUCURBITARIA Gray.

1568. **Cucurbitaria Aspegrenii** Fckl.

N.E.—Scarboro', on *Prunus communis*.

1569. **Cucurbitaria berberidis** (Pers.) Gray.

N.E.—Ayton near Scarboro', on dead branches of barberry ('Nat.', Sep. '81; Grev. xvi. p. 34).

S.W.—Roche Abbey Valley (Lees' Fl.).

S.E.—Boynton (W.W.S.).

1570. **Cucurbitaria laburni** (Pers.) C. & De N.

N.E.—Scarboro' (Grev. xvi. p. 35).

S.E.—Boynton (W.W.S.), on dead laburnum-branches.

1571. **Cucurbitaria elongata** Gray.

S.W.—Cadeby; Melton; on *Rosa* stems (F.F., '01).

1572. **Cucurbitaria spartii** (Nees.) C. & De N.

N.E.—Scarboro', on *Sarothamnus* branches ('Nat.', Sep. '81; Grev. xvi. p. 35).

1573. **Cucurbitaria rhamni** (Nees.).

N.E.—York, on *Rhamnus Frangula* (Grev. xvi. p. 35).

SUPERFICIALES Fr.

BYSSOSPHÆRIA Cke.

1574. **Byssosphæria tristis** Tode.

N.E.—Scarboro', on dead wood.

1575. **Byssosphæria aquila** [*Sphæria*. Fr.].

N.E.—Castle Howard ('Nat.', June '80). Mulgrave Woods (F.F., 1900). Scarboro', on dead wood.

S.W.—Holden Wood, Keighley, on rotten wood (Lees' Fl.).

S.E.—Boynton (W.W.S.).

1576. **Byssosphæria thelena** (Rabh.).

N.E.—Scarboro', on wood, etc. (Grev. xvi. p. 35).

1577. **Byssosphæria innumera** Cke. [*Sphæria innumera* B. & Br.].

S.W.—Roche Abbey Valley (Lees' Fl.).

1578. **Byssosphæria callimorpha** (Mont.) Cke.

S.W.—Shipley Glen ('Nat.', Sep. '81). Melton (F.F., '01).

1579. **Byssosphæria phæostroma** (Mont.) Cke.

N.E.—Scarboro', on wood ('Nat.', Sep. '81; Grev. xvi. p. 35).

S.W.—Southowram, on dead wood (Fl. Hx.).

LASIOSPHÆRIA Fckl.

1580. **Lasiosphæria ovina** C. & De N. [*Sphæria ovina* Pers.; *Leptospora ovina* Fckl.].

N.E.—Scarboro' (Grev. xvi. p. 36). Staithes (*'Nat.', Ap. '98). Mulgrave Woods (F.F., 1900). Coxwold (*'Nat.', Sep. '02).

S.W.—Several places about Hebden Bridge and Halifax ('Nat.', June '94, and Fl. Hx.). Hugsett (F.F., '97). Sutton (F.F., '99). Cadeby; Melton; Warmsworth; and Potridings Wood (F.F., '01).

Mid W.—Askham Bog (Exc. 1900).

N.W.—Masham (*'Nat.', Jan. '02). Bowes (*'Nat.', Sep. '03). Rokeby (F.F., '04). Common on rotten wood.

1581. **Lasiosphæria membranacea** B. & Br.

N.E.—Langridge, on wood (Grev. xvi. p. 37).

1582. **Lasiosphæria hirsuta** C. & De N. [*Sphæria*. Fr.].

N.E.—Scarboro' ('Nat.', Sep. '81).

On branches of *Salix Caprea*.

1583. **Lasiosphæria hispida** Fckl. [*Sphæria*. Tode.].

S.E.—Low Wood, Boynton (W.W.S.).

S.W.—Askern, on fallen trunk (F.F., '99).

N.E.—Bulmer, on dead wood.

1584. **Lasiosphæria racodium** (Pers.) C. & De N.

N.E.—Castle Howard, on dead wood ('Nat.', Sep. '81). Scarboro', on dead wood (Grev. xvi. p. 37).

1585. **Lasiosphæria mutabilis** Fckl. [*Sphæria.* Pers.; *Herpotrichia.* Wint. Rabh. Krpt. Fl.].

S.E.—Boynton (W.W.S.).

CONIOCHÆTA Sacc.

1586. **Coniochæta sexdecemspora** Cke.

N.E.—Scarboro', on dead beech-branches.

VENTURIA C. & de N.

1587. **Venturia ilicifolia** Cke.

N.E.—Thirsk, on holly leaves (Grev. xvi. p. 38).

1588. **Venturia myrtilli** Cke.

N.E.—Near Scarboro', on dead leaves of *Vaccinium Myrtillus* and on *Polemonium cæruleum.*

1589. **Venturia Thwaitesii** Mass. and Crossl.

N.W.—Masham, on dead stems of wild raspberry, *Rubus idæus.* For diagnosis see (New Fungi 'Nat.', Jan. '04, p. 3).

CHÆTOMIUM Knze.

1590. **Chætomium elatum** Knze.

N.E.—Scarboro', on damp grass ('Nat.', Aug. '81).

S.W.—Haigh ('Nat.', Oct. '82). Lightcliffe, on decaying straw; Halifax, on old rope; Norland and other places, on dead thistle (Fl. Hx.). Cadeby, on decaying grass (F.F., '01).

1591. **Chætomium chartarum** Ehrb. [*Ascotricha chartarum* Berk.].

N.E.—Scarboro', on damp paper.

S.W.—Bradford, on rotting paper.

1592. **Chætomium murorum** Wint.

S.W.—Cadeby, on dead grass (F.F. '01).

PSILOSPHÆRIA Cke.

1593. **Psilosphæria minima** Cke. [*Trichosphæria.* Fckl.; *Wallrothiella.* Sacc.].

S.W.—Salterhebble and North Dean Wood, on decorticated wood, and dead honeysuckle (Fl. Hx.).

1594. **Psilosphæria spermoides** Cke. [*Sphæria.* Hoffm.; *Lasiosphæria.* C. & De N.; *Leptospora.* Fckl.].

S.W.—Halifax 1789, "On the end of the grain on stumps of trees, rarely on the side of the grain" (Bolton, Tab. 122, f. 2).

Very common on moist rotting stumps, trunks, branches, etc. Records numerous for each county division.

1595. **Psilosphæria moriformis** Cke. [*Sphæria*. Tode.]

N.E.—Scarboro' ('Nat.', Sep. '81). On rotten wood.

Mid W.—Studley Royal (F.F. '81).

S.E.—Hollokill Wood, Boynton (W.W.S.).

ROSELLINIA C & De N.

1596. **Rosellinia mammiformis** (Pers.)

N.E.—Scarboro' (Tr. iv.), on decaying branches.

S.W.—Roche Abbey Valley (Lees Fl.).

1597. **Rosellinia pulveracea** Fckl. [*Sphæria*. Ehrb.].

S.E.—Boynton (W.W.S.).

S.W.—Rockley Dam (F.F., '97), on dry dead wood.

Mid W.—Bolton Woods (Fl. Skipt.).

1598. **Rosellinia myriocarpa** Fr.

N.E.—Scarboro', on dead branches.

1599. **Rosellinia fasciculata** [*Bombardia fasciculata* Fr.; *Sphæria Bombarda* Batsch; *Bertia Bombarda* C. & De Not.].

N.E.—Scarboro', on wood (Grev. xvi. p. 118).

S.W.—Roche Abbey Valley (Lees' Fl.).

MELANOMMA.

1600. **Melanomma pulvisculum** (Fckl.) [*Sphæria pulviscula* Curr.; *Zignoëlla pulviscula* Sacc.].

Mid W.—Bolton Woods, on decaying wood (Fl. Skipt.).

1601. **Melanomma pulvis-pyrius** Fckl. [*Sphæria pulvis-pyrius* Pers.].

N.E.—Castle Howard ('Nat.', Sep. '81.). Scarboro'. Mulgrave Woods (F.F. 1900).

S.E.—Boynton (W.W.S.). Elloughton ('Nat.', Aug. '01).

Mid W.—Micklefield (F.F. '81). Bishops Wood (F.F. '96). Bolton Woods (Fl. Skipt.).

S.W.—Nab Wood, Saltaire, on dead holly (Lees' Fl.). Campsall (F.F., '99). Melton (F.F., '01.). Many places about Hebden Bridge and Halifax (Fl. Hx.).

On dead wood, and bark of various trees.

STRICKERIA Körb.

1602. **Strickeria vilis** Wint. Rabh. Krpt. Fl. [*Sphæria vilis* Fr.; *Melanomma vilis* Fckl.].

S.E.—Pond Wood, Boynton, on dead oak-wood.

SORDARIA C. & De N.

1603. **Sordaria coprophila** [*Sphæria coprophila* Fr.; *Podospora coprophila* Rabh. Krypt. Fl.].

N.E.—Scarboro', on horse and cow dung.

Mid W.—Eldwick, on old cow dung (Lees' Fl.).

S.W.—Hebden Bridge; Luddenden Dean; Mixenden, etc., on cow dung (Fl. Hx.). Bingley (Fl. Skipt.).

N.W.—Masham ('Nat.' Jan., '02).

Sordaria bovilla Cke. is now known to be the immature stage of *S. coprophila* (Researches on Coprophilous Fungi, Massee & Salmon Annals Bot. xv., June 1901).

1604. **Sordaria minuta** Wint. [*Podospora*. Fckl.].

S.W.—Huddersfield (F.F. '95) and previous. Hardcastle, on sheep and rabbit dung (Fl. Hx.). Goitstock. Cadeby (F.F. '01).

N.W.—Masham, on rabbit dung ('Nat.', Jan. '02).

form **tetraspora** Wint.

S.W.—Hebden Bridge, on rabbit dung (Fl. Hx.).

1605. **Sordaria neglecta** Hans.

N.E.—Developed on sheep dung gathered at Helmsley (F.F. '03, T. Gibbs).

1606. **Sordaria fimiseda** C. & De N. [*Podospora*. Ces.].

S.W.—Hebden Bridge, on rotting carpet (Fl. Hx.).

1607. **Sordaria curvula** De By. [*Podospora*. Ces.].

S.W.—Mixenden; Skircoat; Elland; Shibden; Luddenden Dean: Hardcastle, etc. (Fl. Hx.). On cow dung.

N.E.—Helmsley '03 (H. Slater).

form **coronata** Wint.

S.W.—Hebden Bridge Fl. Hx. On cow dung.

1608. **Sordaria decipiens** Wint. [*Podospora*. Ces.].

S.W.—Wainstalls, Halifax, on cow dung. Melton Wood, on rabbit dung (F.F. '01).

1609. **Sordaria squamulosa** Crouan.

S.W.—Storthes Hall, Huddersfield '95, on rabbit dung.

1610. **Sordaria lanuginosa** (Preuss.) Sacc. [*Sphæria brassicæ* Klotsch; *Podospora brassicæ* Ces.].

S.W.—Ingrow, on dead cabbage-stalks (Lees' Fl.).

1611. **Sordaria fimicola** Ces. & De N. [*Sphæria fimicola* Rob.; *Hypocopra fimicola* Sacc.].

S.W.—Luddenden Dean, on dog dung; Copley, on horse dung (Fl. Hx.).

N.E.—Helmsley (H. Slater).

1612. **Sordaria microspora** Plow. [*Hypocopra*. Sacc.].

S.W.—Storthes Hall, Huddersfield '95. On rabbit dung.

1613. **Sordaria Serignanensis** Fab. [*Hypocopra Serignanensis* Sacc.].

S.W.—Hebden Bridge, on rabbit dung (Crossl. New and Critical British Fungi, 'Nat.', Jan. 1900 p. 8).

1614. **Sordaria setosa** Wint. [*Philocopra*. Sacc.].

S.W.—Cadeby, on rabbit dung (F.F. '01).

SPORORMIA De N.

1615. **Sporormia minima** Awd.

S.W.—Storthes Hall, Huddersfield '95. Hardcastle (Fl. Hx.). Cadeby (F.F. '01). On rabbit dung.

N.W.—Masham, on rabbit dung ('Nat.', Jan. '02).

1616. **Sporormia leporina** Niessl.

S.W.—Storthes Hall Wood, Huddersfield '95.

1617. **Sporormia intermedia** Awd. [*Sphæria sporormia* Cke.].

N.E.—Scarboro', on rabbit dung.

S.W.—Nr. Hebden Bridge, on dog dung (Fl. Hx.). Cadeby, on rabbit dung (F.F. '01).

N.W.—Masham, on rabbit dung ('Nat.', Jan. '02).

PERTUSÆ.

CONISPHÆRIA.

1618. **Conisphæria macrasca** Sacc.

N.E.—Bulmer; Scarboro', on bleached elm-wood (Grev. xvii. p. 4).

AMPHISPHÆRIA C. & De N.

1619. **Amphisphæria pertusa** (Pers.).

N.E.—Scarboro', on dead wood.

WINTERIA Rehm.

1620. **Winteria ordinata** (Fr.).

N.E.—Scarboro', on oak wood.

LOPHIOSTOMACEÆ.

LOPHIOSPHÆRIA Trev.

1621. **Lophiosphæria hederæ** Fckl.

N.E.—Scarboro', on dead ivy.

LOPHIOSTOMA C. & De N.

1622. **Lophiostoma caulium** Fr.

S.W.—Hebden Bridge, on dead stems of *Epilobium hirsutum* ('Nat.', June '94).

N.E.—Stokesley (Exc. '99).

S.E.—Filey ('Nat.', Jy. '03), on *E. hirsutum*.

1623. **Lophiostoma macrostomum** Tode.

N.E.—Scarboro', on dead holly.

CERATOSTOMEÆ.

SPUMATORIA Mass. & Salm.

1624. **Spumatoria longicollis** M. & S.

S.W.—Sheffield, on rabbit dung ('Nat.', Ap. '02. p. 132).

CERATOSTOMELLA Sacc.

1625. **Ceratostomella rostrata** (Fr.).

N.E.—Scarboro', on rotten wood.

GNOMONIA C. & De N.

1626. **Gnomonia tubæformis** (Tode) Awd.

N.E.—Scarboro', on dead alder-leaves.

1627. **Gnomonia avellanæ** Sch.

N.E.—Scarboro', on living hazel leaves.

1628. **Gnomonia vulgaris** C. & De N.

N.E.—Scarboro'; Thirsk; on living hazel leaves (Grev. xvii. p. 74).

1629. **Gnomonia coryli** (Batsch) Awd.

N.E.—Castle Howard (Grev. xvii. p. 74). Scarboro'. On living hazel leaves.

1630. **Gnomonia Needhami** Mass. & Crossl.

S.W.—Crimsworth Dean, Hebden Bridge, on dead fir-leaves.

A very remarkable fungus, owing to the enormous development of the beak or mouth of the perithecium, through which the spores escape into the air. For diagnosis see (New Fungi 'Nat.', Jan. '04, pp. 3-4).

1631. **Gnomonia setacea** Awd. [*Sphæria.* Pers.].

N.E.—Scarboro' ('Nat.', Sep. '81).

Mid W.—Esholt (Lees' Fl.). Bolton Woods (Fl. Skipt.).

S.W.—Saltaire; Bingley (Lees' Fl.). Stannelly Clough, Stansfield; Hebden Bridge (Fl. Hx.).

S.E.—Boynton (W.W.S.).

On petioles of dead sycamore-leaves.

1632. **Gnomonia ariæ** Fckl.

N.E.—Scarboro', on dead leaves of *Pyrus Aria.*

ENDOXYLEÆ.

XYLOSPHÆRIA Cke.

1633. **Xylosphæria apiculata** Cke. [*Sphæria.* Curr.; *Anthostoma.* Niessl.; *Rhynchostoma.* Rabh. Krypt. Fl.].

N.E.—Scarboro' ('Nat.', Sep. '81).

OBTECTÆ.

MASSARIA Fr.

1634. **Massaria inquinans** (Tode).

N.E.—Terrington, on *Acer* (Grev. xviii. p. 9). Scarboro'; Bulmer; on sycamore wood.

CRYPTOSPHÆRIA Grev.

1635. **Cryptosphæria millepunctata** Grev. [*Sphæria millepunctata* Fr.; *Valsa millepunctata* Nitschke; etc.].

N.E.—Scarboro', on ash branches.

Mid W.—On ash twigs, common (Lees' Fl.).

DIDYMOSPHÆRIA Fckl.

1636. **Didymosphæria celata** Sacc. [*Sphæria.* Curr.].

Mid W.—Collingham; Wetherby (Lees' Fl.).

N.W.—Dent, on wych-elm bark (Lees' Fl.).

LEPTOSPHÆRIA C. & De N.

1637. **Leptosphæria Cookei** Pir.

N.E.—Terrington Carr, on vine twigs (Grev. xviii. p. 12).

1638. **Leptosphæria fuscella** [*Sphæria.* B. & Br.].

S.E. Boynton (W.W.S.).

CAULICOLÆ.

DIDYMELLA Sacc.

1639. **Didymella tosta** B. & Br.

N.E.—Scarboro', on dead stems of *Epilobium montanum.*

METASPHÆRIA Sacc.

1640. **Metasphæria complanata** Sacc. [*Sphæria.* Tode; *Leptosphæria.* De N.].

Mid W.—Bolton Woods ('Nat.', Sep. '81). Towton dike, on *Typha* stems; Esholt, on dead herbaceous stem (Lees' Fl.).

N.E.—Scarboro' ('Nat.'. Sep. '81). Mulgrave Woods.

S.E.—Filey, on dead herb. stems (* 'Nat.', Jy. '03).

S.W.—Norland, on decaying cabbage-stalk (Fl. Hx.).

RAPHIDOSPORA.

1641. **Raphidospora rubella** Fckl. [*Sphæria rubella* Pers.; *Ophiobolus porphyrogonus* Sacc., etc.].

N.E.—Scarboro' (Tr. iv.). On dead nettle-stem.

Mid W.—Church Fenton (Lees' Fl.). East Keswick.

S.W.—Heaton; Bingley, etc., on thistle stems (Lees' Fl.). Elland on decaying stems of *Cnicus palustris;* Hebden Bridge, on dead stems of *Epilobium hirsutum.* (Fl. Hx.).

1642. **Raphidospora urticæ** Rabh. [*Sphæria erythrospora* Reiss.; *Ophiobolus urticæ* Sacc.].

Mid W.—Clapham, on nettle stems (Lees' Fl.).

1643. **Raphidospora acuminata** Cke. [*Sphæria acuminata* Sow.; *Ophiobolus acuminatus* Duby.].

N.E.—Scarboro' ('Nat.', Sep. '81), on dead nettle-stems.

S.W.—Heaton; Bingley, on thistle stems (Lees' Fl.). Hebden Bridge, on dead stems of *Cnicus palustris* (Fl. Hx.). Sutton; Campsall (F.F. '99).

N.W.—Masham, on dead herb. stem ('Nat.', May '03).

HEPTAMERIA Cke.

1644. **Heptameria doliolum** Cke. [*Sphæria.* Pers.; *Pleospora.* Tul.; *Leptosphæria.* C. & De N.].

N.E.—Scarboro' ('Nat.', Sep. 81), on dead thistle-stems.

Mid W.—Bolton Woods ('Nat.', Sep. '81).

S.E.—Boynton (W.W.S.).

S.W.—Hebden Bridge; Copley, on dead herbaceous stems (Fl. Hx.).

N.W.—Masham, on dead herb. stems ('Nat.', Jan. '02).

1645. **Heptameria planiuscula** (Cke.). [*Sphæria planiuscula* Reiss.; *Leptosphæria planiuscula* C. & de N.].

N.E.—Scarboro' ('Nat.', Sep. '81).

Mid W.—Ilkley, on dead herbaceous stems (Lees' Fl.).

S.W.—Bradford.

1646. **Heptameria ogilviensis** Cke. [*Sphæria.* B. & Br.; *Leptosphæria.* C. & de N.].

S.W.—Keighley, on stem of *Chrysanthemum* (J.E.S.).

1647. **Heptameria acuta** Cke. [*Sphæria.* Moug. & Nestl.; *Pleospora.* Fckl.; *Leptosphæria.* Karst.].

N.E.—Scarboro' (Tr. iv.). Castle Howard (*'Nat.', Jan. '80). Mulgrave Woods (F.F. 1900). Coxwold (*'Nat.', Sep. '02).

S.E.—Boynton (W.W.S.).

S.W.—Barnsley (*'Nat.', Jy. '80). Bingley ('Nat.', Sep. '81). Elland; Hebden Bridge (Fl. Hx.).

N.W.—Masham ('Nat.', Jan. '02). Bowes (*'Nat.', Sep. '03). Common on dead nettle and other herbaceous stems.

1648. **Heptameria derasa** Cke. [*Sphæria derasa* B. & Br.; *Leptosphæria derasa* Awd.].

S.W.—Hebden Bridge, on *Senecio Jacobæa* (Fl. Hx.).

1649. **Heptameria lunariæ** Cke. [*Sphæria.* B. & Br.].

N.E.—Nr. Scarboro', on dried pods of *Lunaria rediviva* (W.W.S.).

PLEOSPORA Rabh.

1650. **Pleospora vulgaris** Niessl.

N.E.—Scarboro', on dead carrot-stems.

1651. **Pleospora meliloti** Rabh.

N.E.—Scalby, nr. Scarboro', on dead stems of melilot.

1652. **Pleospora herbarum** Rabh. [*Sphæria*. Pers.].

N.E.—Bulmer (Tr. iv.). Scarboro', on dead stems of *Lycopus europæus*.

S.E.—Bridlington, on furze (W.W.S.). ? Filey, on dead leaves of *Holcus mollis*, '01. (J. T. Jolley, Hx.).

S.W.—Halifax, on dead beanstalk; Elland on dead potato haulms; Luddenden, on *Senecio;* Hebden Bridge, on dead herbaceous stems of many kinds (Fl. Hx.).

Mid W.—Bolton Woods (Fl. Skipt.).

Common on a great variety of herbaceous stems.

1653. **Pleospora leguminum** Wallr.

N.E.—Scarboro', on *Lathyrus pratensis*.

1654. **Pleospora scirpicola** Karst. [*Sphæria*. DC.].

Mid W.—Towton Dike, on *Typha* (Lees' Fl.).

1655. **Pleospora pentamera** Karst.

S.W.—Copley, on dead grass stems (Fl. Hx. Add. = *patamera*.).

S.E.—Filey, on dead leaves of *Holcus* (J. T. Jolley, Hx.).

PYRENOPHORA Sacc.

1656. **Pyrenophora pellita** Sacc. [*Sphæria*. Fr.].

N.E.—Scarboro' ('Nat.', Sep. '81).

1657. **Pyrenophora phæocomoides** Sacc. [*Sphæria phæocomes* B. & Br.; *Pleospora phæocomes* Niessl.].

Mid W.—Rawdon, on dead grass leaves (Lees' Fl.). Bolton Woods (Fl. Skipt.).

FOLICOLÆ.

SPHÆRELLA C. & De N.

1658. **Sphærella punctiformis** Sacc. [*Sphæria*. Pers.].

N.E.—Scarboro', on dead dock-leaves.

1659. **Sphærella maculiformis** Awd. [*Sphæria*. Pers.].

S.W.—Hebden Bridge, on fallen oak-leaves (Fl. Hx.).

1660. **Sphærella taxi** Cke. [*Sphærulina*. Sacc.].

S.W.—Cadeby; Melton; in abundance on living leaves of *Taxus baccata* (F.F. '01).

1661. **Sphærella hedericola** Desm.

N.E.—Scarboro', on dead ivy-leaves.

1662. **Sphærella brassicicola** (Duby) C. & De N.

S.W.—Bingley (Fl. Skipt.). On dead cabbage-leaves.

N.E.—Scarboro', on dead shepherds' purse.

1663. **Sphærella fragariæ** (Tul.) Sacc.

N.E.—Egton Bridge, in garden on cultivated strawberry plants (F.F. '02, recorded as *S. fragariastri*).

"The leaves of cultivated strawberries are too frequently attacked by this fungus, which is widely distributed. . . . If the leaves become badly diseased, the crop of fruit is materially affected, if not completely lost. . . ." (Mass. Text-Book of Plant Diseases, p. 107, fig. 18).

1664. **Sphærella isariphora** C. & De N. [*Sphæria isariphora* Desm.; *Leptosphæria isariphora* Awd.].

N.E.—Scarboro', on *Stellaria media* ('Nat.', Sep. '81).

1665. **Sphærella rumicis** Cke. [*Sphæria*. Desm. .

Common on living leaves of *Rumex sp.* Distribution general. Records numerous.

1666. **Sphærella typhæ** Awd. [*Sphæria*. Lasch. .

N.E.—Terrington, on *Typha latifolia* (Grev. xix. p. 43).

1667. **Sphærella pteridis** De N. [*Sphæria*. Desm.

N.E.—Scarboro' on fronds of *Pteris aquilina*.

SPHÆRULINA Sacc.

1668. **Sphærulina hederæ** (Sow.). [*Sphærella*. Oud.].

S.W.—Cottingley (Lees' Fl.). Hebden Bridge (Fl. Hx.).

N.E.—Egton Bridge (F.F. '02). On dead ivy-leaves.

PERISPORACEÆ.

ERYSIPHEÆ.

PODOSPHÆRA Lév.

1669. **Podosphæra oxyacanthæ** De By. [*Erysiphe oxyacanthæ* DC.; *Podosphæria clandestina* Lév.].

Mid W.—Thorner (Lees' Fl.).

N.E.—Scarboro', on *Cratægus oxyacantha*, hawthorn.

"This pest is more especially injurious to young cherry-trees, but also attacks the apple, peach, and other cultivated and wild plants belonging to *Rosaceæ*; it also occurs on species of *Vaccinium*" (Mass. Text-Book of Plant Diseases).

1670. **Podosphæra tridactyla** (Wallr.) De By.

N.E.—Scarboro', on *Prunus Padus*, bird-cherry.

SPHÆROTHECA Lév.

1671. **Sphærotheca pannosa** (Wallr.).

Common on wild and cultivated rose bushes, especially in the conidial (*Oidium leuconicum* Desm.) condition; it attacks the stems, leaves, and calyces. Records numerous.

1672. **Sphærotheca castagnei** Lév.

Mid W.—Malham; Grassington (Lees' Fl.).

S.W.—Bingley; Saltaire (Lees' Fl.). Potridings Wood, on *Alchemilla vulgaris* (F.F. '01, 'Nat.', Nov. '01 = *S. humuli*). Hebden Bridge, on *Spiræa Ulmaria* (Fl. Hx.).

N.E.—Hawnby, on *S. Ulmaria* '83 (J.A.W.). Scarboro', on vegetable-marrow. Egton Bridge, on garden peas (F.F. '02).

S.E.—Nr. Selby on hop = *Humulus Lupulus* (R.H.P.).

N.W.—Masham, on *A. vulgaris* ('Nat.', Jan. '02 = *S. humuli*).

"Parasitic on numerous wild plants of various Orders" (Mass. Text-Book of Plant Diseases).

PHYLLACTINIA Lev.

1673. **Phyllactinia suffulta** (Reb.) Sacc. [*Phyllactinia guttata* Lev.].

Mid W.—On leaves of hawthorn, hazel, and forest trees, locally abundant (Lees' Fl.).

S.E.—Near Hull, on hawthorn, common (R.H.P.).

N.E.—Raincliff, Scarboro' on *Corylus Avellana*.

"This fungus is also parasitic upon the leaves of elm, ash, birch, beech, alder, willow, oak, hornbeam, honeysuckle, spindle-tree, cornel, and sea-buckthorn" (Mass. Text-book of Plant Diseases, p. 98, f. 26).

UNCINULA Lév.

1674. **Uncinula adunca** Lév. [*Erysiphe salicis* DC.; *E. adunca* Grev.; *Uncinula salicis* (DC.) Rabh. Krypt. Fl.].

N.E.—Ayton, Scarboro', on *Salix* leaves.

1675. **Uncinula aceris** Sacc. [*Erysiphe aceris* DC.; *Uncinula bicornis* Lév.].

S.E.—Boynton (W.W.S.). Burton Constable, on *Acer campestre* (R. H. Philip).

N.W.—Masham, on *Acer pseudoplatanus* ('Nat.', Jan. '02).

MICROSPHÆRA Lév.

1676. **Microsphæra berberidis** Lév. [*Erysiphe.* DC.].

N.E.—Scarboro', on *Berberis vulgaris.*

1677.—**Microsphæra grossulariæ** (Wallr.) Lév.

S.W.—Lindrick Dale (Lees' Fl.). Campsall (F.F., '99).

Mid W.—Bolton Woods, '92 (H.T.S.).

N.W.—Masham ('Nat.', Jan. '02).

N.E.—Scalby, near Scarboro'.

On leaves of cultivated *Ribes grossularia*—gooseberry.

1678. **Microsphæra lycii** (Lasch). [*Erysiphe* Lasch.].

N.E.—Scarboro', on *Lycopus europæus*—gipsy wort.

ERYSIPHE.

1679. **Erysiphe graminis** DC.

S.W.—Anston Stones ('Nat.', June '77). Elland (Fl. Hx.).

Mid W.—Harewood; East Keswick (F.F., '98). Bolton Woods (Fl. Skipt).

N.E.—Scarboro', on various grasses.

1680. **Erysiphe tortilis** (Wallr.).

S.W.—Anston Stones (Lees' Fl.).

1681. **Erysiphe communis** (Wallr.). [*E. polygoni* DC.].

Common, parasitic on a variety of plants, including *Polygonum aviculare*, *Circæa Lutetiana*, *Ranunculus repens*, etc.

1682. **Erysiphe galeopsidis** DC.

S.W.—Saltaire and Bingley, on *Stachys sylvatica* (Lees' Fl. = *E. horridula* Lév.).

1683. **Erysiphe cichoracearum** DC. [*Erysiphe lamprocarpa* Lév.; *E. Montagnei* Lév., etc.].

Very common or *Arctium Lappa* and *vars.* Also occurs on Umbelliferæ, *Sonchus sp.*, *Plantago media*, etc.

EUROTIEÆ.

EUROTIUM Link.

1684. **Eurotium herbariorum** (Wigg.) [*Eurotium epixylon* Sch. & Kze. *E. Aspergillus glaucus* De By.].

S.W.—Southowram, on old leather; Halifax on *Rubus sp.* in Herb. C.C. Ovenden, on decaying 'lad's love' = *Artemesia* (Fl. Hx.).

1685. **Eurotium lateritium** Mont.

N.E.—Scarboro', on stale bread.

Omitted from Brit. Fung. Fl. by mistake.

ARACHNOMYCES Mass. and Salmon.

1686. **Arachnomyces nitidus** M. & S.

S.W.—Cadeby, on rotting grass (F.F., '01). (Researches on Coprophilous Fungi II. Mass. & Salmon, Annals Bot. xvi. 1902, p. 68, figs. 127-131). First found at Kew.

PERISPORIEÆ.

ANIXIA Fr.

1687. **Anixia cyclospora** Sacc. [*Sphæria cyclospora* Cke. Pop. Sci. Rev. Jan. 1871. Tab. 35. figs. 10-11; *Orbicula cyclospora* Cke. Hdbk.].

S.W.—Bradford, on damp paper (Lees' Fl.). Elland, on rotting newspaper, bottom of railway embankment; Halifax, on stems in bale of herbs from the Continent (Fl. Hx.).

1688. **Anixia spadicea** Fckl.

S.W.—Hebden Bridge, on cast-out, rotting, cloth-tab hearthrug (Fl. Hx.). Quite distinct from *A. cyclospora.*

THIELAVIA Zopf.

1689. **Thielavia Soppittii** Crossl.

S.W.—Norland, on decaying stems of *Cnicus palustris.* For diagnosis and remarks see (New and Critical British Fungi. Crossl. 'Nat.', Jan. 1900 pp. 7 & 10, figs. 4-6).

LASIOBOTRYS Kze.

1690. **Lasiobotrys loniceræ** Kze.

S.W.—Saltaire, on living leaves of honeysuckle (Lees' Fl.).

PERISPORIUM Fr.

1691. **Perisporium vulgare** Corda.

S.W.—Knottingley, on dead cabbage-stalk ('Nat.', Oct. '93). Hebden Bridge, on the jute backing of cast-out, rotting hearthrug (Fl. Hx.).

1692. **Perisporium funiculatum** Preuss.

S.W.—Hebden Bridge, under the same conditions as the preceding species (Add. Fl. Hx.).

CAPNODIEÆ.

CAPNODIUM Mont.

1693. **Capnodium salicinum** (A. & S.).

N.E.—Scarboro', on *Salix* leaves.

1694. **Capnodium tiliæ** (Fckl.) Sacc.

N.E.—Scalby, near Scarboro', on lime-tree leaves.

1695. **Capnodium sphæricum** Cke. Hdbk. ii. n. 1808. [*Asterina veronicæ* (Lib.). Cke. Grev. v. p. 122].

Mid W.—Hawksworth, on dead leaves of *Veronica officinalis* (Lees' Fl.).

ONYGENACEÆ.

ONYGENA Pers.

1696. **Onygena equina** Pers.

S.W.—Halifax 1790. "On the putrid hoofs of beasts" (Bolton, Tab. 178).

N.W.—Masham, on putrid sheep-horns ('Nat.', May '03).

Mid W.—Grassington, on putrid sheep-horns, near the remains of a dead sheep in Grass Woods (Exc. 1900).

1697. **Onygena piligena** Fr.

S.W.—Pecket Wood, Hebden Bridge, on rotting felt hat, and rotting cloth-tab hearthrug; Barkisland, on old worsted stocking on rubbish heap (Fl. Hx.).

ELAPHOMYCETACEÆ.

ELAPHOMYCES Nees.

1698. **Elaphomyces granulatus** Fr.

S.W.—Bingley Wood (Lees' Fl.). Hebden Bridge; Elland Park Wood (Fl. Hx.). Goitstock.

MID W.—Woods near Selby (Lees' Fl.).

S.E. Hollokill Wood, Boynton (W.W.S). Blackwood, Selby (F.F. '84 and F.F. '96). Houghton (Exc. '97).

N.W.—Healey, near Masham, 1903.

A subterranean species found in heathy soil in woods, especially beech-woods; occasionally unearthed by rabbits.

CENOCOCCACEÆ.

CENOCOCCUM Fr.

1699. **Cenococcum geophilum** Fr.

N.E.—Terrington Peat Carr (Tr. iv.).

TUBERACEÆ.

TUBER Mich.

1700. **Tuber æstivum** L. Truffle.

MID W.—Thorparch; Wetherby; etc., in beechwoods (Lees' Fl.). A subterranean species.

This record may prove to belong to some species of *Elaphomyces* rather than to *Tuber*.

HYSTERIACEÆ.

HYSTERIEÆ.

AULOGRAPHUM Lib.

1701. **Aulographum vagum** Lib. [*Ailographum.* Cke.].

N.E.—Scarboro', on dead holly-leaves.

On dry coriaceous leaves, as ivy, holly, etc. (Mass. Brit. Fung. Fl. iv. pp. 31-32. figs. 45-47. p. 22.).

GLONIUM Mühl.

1702. **Glonium lineare** De N. [*Hysterium lineare* Fr.; *Hysterium confluens* Wallr.].

N.E.—Scarboro', on dead beech-wood.

HYPODERMA DC.

1703. **Hypoderma commune** Duby [*Hysterium.* Fr.].

S.E.—Boynton (W.W.S.). On dead herbaceous plants.

N.E.—The Mere, Scarboro', on dead stems of *Ranunculus Flammula*.

1704. **Hypoderma virgultorum** DC. [*Hysterium virgultorum* Cke. Hdbk.].

N.E.—Scarboro' ('Nat.', Aug. '81). Bulmer, on dead bramble-stems.

S.W.—Cadeby (F.F., '01). On dead bramble.

N.W.—Masham.

1705. **Hypoderma conigenum** [*Hysterium.* Pers.].

N.E.—Castle Howard Park on Scots-fir cones (Tr. iv.).

S.E.—Pocklington (F.F., '93).

LOPHODERMIUM Chev.

1706. **Lophodermium arundinaceum** Chev. [*Hysterium arundinaceum* Schrad.].

N.E.—Scarboro' (Tr. i.). On *Phalaris arundinacea;* also on leaf sheaths of *Bromus asper.*

S.E.—Filey, on decaying grass (J. T. Jolley, Hx.).

1707. **Lophodermium maculare** De N.

Var. **ilicinum** Mass. [*Hysterium* (*Hypoderma*) *ilicinum* Cke. Hdbk.; *Hypoderma ilicinum* De N.].

N.E.—Coxwold, on dry oak-leaves (*'Nat.', Sep. '02).

N.W.—Rokeby (F.F., '04).

1708. **Lophodermium hysterioides** (Pers.) Sacc. [*Hysterium xylomoides* Cke. Hdbk.].

N.E.—Scarboro', on dead hawthorn-leaves.

1709. **Lophodermium pinastri** (Schrad.) Chev.

S.W.—Nr. Hebden Bridge, on Scots-fir leaves (Fl. Hx.).

N.E.—Limber Wood (F.F., '02). Scarboro', on leaves of Scots-fir.

"A tiny fungus producing very minute, elliptical, black spots on the leaves of various species of pine, causing the leaves to fall prematurely, and consequently, especially in the case of seedlings and young trees, finally killing the plant" (Mass. Text-Book of Plant Diseases, pp. 139-142, f. 27).

1710. **Lophodermium juniperinum** De N. [*Hysterium* (*Lophodermium*) *juniperinum* Cke. Hdbk.].

Mid W.—Horton-in-Ribblesdale, on dead juniper-leaves (Lees' Fl.).

GLONIOPSIS De N.

1711. **Gloniopsis curvata** Sacc. [*Hysterium*. Fr.].

S.W.—Bingley, on dead branches of *Rosa* (Lees' Fl.).

N.E.—Helmsley, on dead, dry rose-branches (F.F., '03).

"When growing on rose stems the ascophores are mostly parallel, but on other plants, as bramble, sloe, and hawthorn, they frequently stand at all angles" (Mass. Brit. Fung. Fl. iv. pp. 42-43. figs. 36-38. p. 22.).

DICHÆNA Fr.

1712. **Dichæna quercina** (Pers.).

N.E.—Scarboro'; Castle Howard; on living oak bark. Egton Bridge (F.F., '02).

S.W.—Hardcastle (Fl. Hx.). Sutton; Owston (F.F., '99). Melton; Potridings Wood (F.F., '01). On oak branches, on the living bark (Mass. Brit. Fung. Fl. iv. pp. 43-44. figs. 10-12. p. 22.).

1713. **Dichæna faginea** Fr. [*Hysterium*. Rabh.].

N.E.—Scarboro', on living beech bark.

1714. **Dichæna strobilina** Fr.

N.E.—Castle Howard, on fir cones (Tr. iv.).

"Not a good *Dichæna* and requires to be examined in a living state" (Mass. Brit. Fung. Fl. iv. p. 45).

MYTILIDION Duby.

1715. **Mytilidion gemmigenum** Fckl. [*M. fusisporum* Sacc.; *Lophium fusisporum* Cke.].

N.W.—Masham, 1903, on dead conifer-branch.

HYSTERIUM Tode.

1716. **Hysterium pulicare** Pers.

Mid W.—Skipton (*'Nat.', May '81).

N.E.—Raincliff Wood, Scarboro' ('Nat.', Aug. '81).

S.E.—Boynton (W.W.S.). On oak bark.

On the bark of various trees, as oak, chestnut, birch, poplar, etc. (Mass. Brit. Fung. Fl. iv. pp. 26-27. figs. 13-16. p. 22.

OSTREION Duby.

1717. **Ostreion americanum** Duby.

N.E.—Scarboro', on pine wood (Grev. xvi. Dec. '87 = *Ostrichnion americanum*, Duby, Hyst.). First British record. (Mass. Brit. Fung. Fl. iv. p. 28. fig. 31. p. 22.).

HYSTEROGRAPHIUM Corda.

1718. **Hysterographium fraxini.** [*Hysterium*. Pers.].

S.W.—Halifax 1789. "Grows about Hx. on twigs and branches of ash trees when in decay" (Bolton, Tab. 124 = *Sphæria sulcata*).

N.E.—Castle Howard (Tr. i. & iv.). Bulmer, on lilac.

MID W.—Wetherby, on dead ash-twig (Lees' Fl.).

On dry branches of ash, lilac, privot, beech, etc. (Mass. Britt. Fung. Fl. iv. p. 29. figs. 32-33 p. 22.).

1719. **Hysterographium elongatum** Corda. [*Hysterium elongatum* Wahl.].

N.E.—Scarboro', on oak wood.

DISCOMYCETES.

HELVELLACEÆ.

MORCHELLEÆ.

MORCHELLA Dill.

1720. **Morchella crassipes** Pers.

N.E.—Sandy field by the Esk near Whitby (Nat. Hist. Jour., June 1885 P. Sewell).

Var. **Smithiana** Cke.

N.E.—Malton (Grev. xii. p. 98).

On the ground among short grass in spring. Edible.

1721. **Morchella esculenta** DC.

S.W.—Halifax 1788. "Grows in sandy meadows. . . . Is greatly esteemed as an esculent" (Bolton, Tab. 91).

Distribution general. Records numerous for each county division.

1722. **Morchella conica** Pers.

N.E.—Scarboro', on the ground. Edible.

MITROPHORA Lév.

1723. **Mitrophora gigas** (Batsch).

N.W.—Masham, on sandy ground among short grass by the river side in spring ('Nat.' May '03). Edible.

1724. **Mitrophora semilibera** Lév. [*Morchella*. DC.].

Mid W.—Wetherby. Kirk Deighton (Lees' Fl.).

S.W.—Sandal Beat, Doncaster (*'Nat.' June '83). Conisbro' (H. B. Soc.). Armitage Bridge (A. Clarke).

N.E.—Forge Valley, Scarboro'.

Among grass in woods, etc. Spring. Edible.

GYROMITRA Fr.

1725. **Gyromitra esculenta** (Pers.).

Mid W.—Gill Grange, on sandy soil (T. Hebden).

S.W.—Salterhebble near Halifax, on butterbur-bank between the river Calder and the canal. Has appeared each spring in fair quantity since 1897 when it was first noticed by Mr. Soppitt. (Fl. Hx.). Edible.

HELVELLA Linn. emend.

1726. **Helvella crispa** (Scop.) Fr.

N.E.—Castle Howard ('Nat.' Aug. '81). Mulgrave Woods (F.F. '94). Helmsley (F.F. '03).

Mid W.—Studley Royal (F.F. '81). Harrogate (T. Hick). Bolton Woods (Fl. Skipt.).

S.W.—Bradley Wood (H. B. Soc.). Saltaire (Lees' Fl.). Sandal Beat (F.F.'91). Cullingworth. Hebden Bridge (Fl.Hx.).

S.E.—Escrick Woods (F.F. '96).

N.W.—Masham ('Nat.' May '03).

On the ground among grass in woods, etc., in autumn. Not common. Edible.

1727. **Helvella lacunosa** Afz.

S.W.—Saltaire (Tr. ix.). Heaton Wood, Bradford (Lees' Fl.). Goitstock. Hebden Bridge (Fl. Hx.).

Mid W.—Malham ('Nat.' Nov. '83). Bishops' Wood (F.F. '96). Found sparingly about Selby ('Nat.' Sep. '02).

S.E.—Pond Wood, Boynton (W.W.S.). Escrick (F.F. '96).

N.E.—Scarboro'. Castle Howard (F.F. '92). Staithes (*'Nat.' Ap. '98). Mulgrave Woods (F.F. '94). Rievaulx (F.F. '03).

N.W.—Masham, Oct. '03. Rokeby (F.F. '04).

On the ground in woods. Spring and autumn. Edible.

1728. **Helvella infula** Schæff.

N.E.—Bulmer; Scarboro', on the ground. Mulgrave woods (F.F. '94).

1729. **Helvella fusca** Gillet.

S.W.—Pecket Wood, Hebden Bridge (Fl. Hx.).

1730. **Helvella subcostata** Cke.

Mid W.—Woodhall Bridge (F.F. '98).

1731. **Helvella corium** (Web.) Mass.

N.E.—Scarboro', on bare ground in spring.

1732. **Helvella ephippium** Lév.

S.W.—Owston (F.F. '99).

N.E.—Mulgrave Woods, on the ground (F.F. '02).

1733. **Helvella elastica** Bull.

S.W.—Halifax "Grows in the shady parts of moist woods, and is a rare plant about Halifax—except in the year 1777 when it abounded in many woods, hedges etc." (Bolton, Tab. 95). Bingley (Lees' Fl.). Cullingworth.

S.E.—Everingham Wood (F.F. '93).

N.E.—Raincliff Wood, Scarboro'. Mulgrave Woods (F.F. '94).

Mid W.—Bolton Woods (Fl. Skipt.).

N.W.—Masham. On the ground in damp woods.

1734. **Helvella macropus** Karst. [*Peziza*. Pers].

S.W.—Highfield near Halifax, 1787 (Bolton, Tab. 96). Edlington Wood (F.F. '91). Maltby Wood (T. Gibbs).

Mid W.—Beckwithshaw (F.F. '81). Harrogate.

S.E.—Everingham (F.F. '93).

N.E.—Stainton Dale, Scarboro' (*'Nat.' June '04).

On the ground in damp, shady woods.

VERPA Swartz.

1735. **Verpa digitaliformis** Pers.

N.E.—Forge Valley, Scarboro', on shaded banks. Spring.

N.W.—Hermitage, Bedale (Exc. Circ. 158. June '01).

GEOGLOSSEÆ,

GEOGLOSSUM Pers.

1736. **Geoglossum hirsutum** Pers.

N.E.—Bulmer; Castle Howard; Scarboro'.

S.W.—Huddersfield and Askern (H.B.Soc.). Hawksworth (H.T.S.). Warley; Wadsworth, etc. (Fl. Hx.).

In pastures; not uncommon in the Halifax and Hebden Bridge districts. Will most likely be found in all the county divisions when carefully looked for.

1737. **Geoglossum glutinosum** Pers. [*G. viscosum* Pers. Mass. Mon. Geoglosseæ Annals Bot. xi. p. 245].

N.E.—Scarboro', on the ground.

S.W.—Bramley, Leeds (H.T.S.). Hainworth near Keighley (Lees' Fl.). Cullingworth. Heptonstall ('Nat.' June '94). Crimsworth; North Dean; Skircoat; Luddenden, etc. (Fl. Hx.). Not uncommon in pastures among short grass.

1738. **Geoglossum glabrum** Pers. [*Clavaria ophioglossoides* L.].

S.W.—Halifax, 1775. "Grows in moist pastures among grass in several places about Hx." (Bolton, Cat. n. 475; and Hist. Fung. Tab. 111. fig. 2.). Heptonstall; Luddenden Dean; Crimsworth; Northowram, etc. (Fl. Hx.). On grassy road side near Haworth (Lees' Fl.). Upland pastures, Bingley and Hainworth (Fl. Skipt.). Mirfield (H. Parkinson).

N.E.—Cloughton, Scarboro' ('Nat.' Jan. '92). Bulmer. Helmsley; Rievaulx (F.F. '03).

N.W.—Masham ('Nat.' May '03).

Form **difforme** Mass. Mon. Geoglosseæ Annals Bot. xi. p. 248. [*Geoglossum difforme* Fr.].

Mid W.—Studley Royal (F.F. '81). Brayton (Lees' Fl.).

N.E.—Scarboro'. Leckby Carr ('Nat.' Nov. '82). Mulgrave Woods (F.F. '94).

S.W.—" Known since 1650. On grassy ant-hills in a close next Hampole Wood Mr. Stonehouse; How. Phyt., 44" (Lees' Fl.). Huddersfield and Askern (H.B.Soc.). Cullingworth. Stump Cross, Hipperholme (Fl. Hx.).

S.E.—North Cave 1903 (A. R. Warnes).

SPATHULARIA Pers.

1739. **Spathularia clavata** [*Elvella clavata* Schæff.; *Spathularia flavida* Pers.; etc.].

S.W.—" Grows in the plantations about Fixby Hall, in Sep. and Oct." 1789 (Bolton, Tab. 97).

N.E.—Scarboro', on the ground among moss.

MID W.—Slaidburn, in fir woods; Otley Chevin Woods (Lees' Fl.).

VIBRISSEA Fr. emend.

1740. **Vibrissea truncorum** (A. & S.) Fr.

S.W.—Shipley (Tr. i.). Cullingworth (Lees' Fl.). On dead sticks in many of the woodland rills in Crimsworth Dean; Heptonstall; Norland; Stainland; Erringden, etc. (Fl. Hx.).

N.E.—Scalby beck near Scarboro', on wood partly lying in water. Stainton Dale, Scarboro' (*' Nat.' June '04).

MID W.—Brennand Valley (Exc. '96).

1741. **Vibrissea circinans** Hazsl. [*Leotia circinans* Pers.; *Cudonia circinans* Fr.].

N.E.—Scarboro', on the ground in fir woods, often forming 'fairy rings.'

MITRULA Fr. emend.

1742. **Mitrula serpentina** (O. F. Muell.) Mass. Mon. Geoglosseæ Annals Bot. xi. p. 268 [*Geoglossum viride* Pers.; *M. viridis* Karst.; *Leptoglossum viride* Cke.; etc.].

N.E.—Scarboro'. Mulgrave, and Arncliffe Woods (F.F. '94). On slightly moist mossy banks.

1743. **Mitrula olivacea** Sacc. [*Geoglossum olivaceum* Pers.; *Leptoglossum olivaceum* Cke.].

N.E.—Scarboro', among grass.

S.W.—Huddersfield (H.B.Soc.). Hebden Bridge (Fl. Hx.).

1744. **Mitrula laricina** (Villars) Mass. Mon. Geoglosseæ Annals. Bot. xi. p. 271. [*Clavaria phalloides* Bull; *Mitrula paludosa* Fr.; *M. phalloides* Chev.; etc.].

N.E.—Scarboro' (*'Nat.', Aug. '82). Whitby; Goathland (M. B. Slater). Helmsley; Rievaulx (F.F., '03).

Mid W.—West Woods, Bramham; Adel (Lees' Fl.).

S.W.—Goitstock. Wyming Brook and Strines, Sheffield (T. Gibbs). Many places near Hebden Bridge; Norland; Erringden; Warley; Sowerby; Wadsworth, etc. (Fl. Hx.).

N.W.—Dent (Exc. '99). Arma Gill; "Druids' Temple" etc. near Swinton and Masham ('Nat.', May '03).

Not uncommon in small, shaded swamps among wet, rotting leaves, principally oak and pine, in spring.

1745. **Mitrula cucullata** (Batsch) Fr.

N.E.—Castle Howard. Scarboro', on dead fir-leaves.

Mid W.—Adel Bog, on fir needles (Lees' Fl.).

N.W.—Masham ('Nat.', Jan. '02), on dead fir-leaves.

1746. **Mitrula microspora** Mass. [*Geoglossum microsporum* Cke; *Leptoglossum microsporum* Sacc.].

Var. **tremellosa** Cke.

N.E.—Raincliff Wood, Scarboro', on the ground.

LEOTIA Hill.

1747. **Leotia lubrica** Pers. [*Leotia gelatinosa* Hill; *Elvella lubrica* Scop.; etc.].

Mid W.—Studley Royal (F.F., '81). Bolton Woods.

N.E.—Littlebeck and Raincliff, Scarboro' (W.W.S.). Arncliffe; Mulgrave (F.F., '94). Helmsley; Rievaulx (F.F., '03).

S.W.—Edlington Wood (F.F., '91). Goitstock. Luddenden Dean, and several places near Hebden Bridge, at one of which it has appeared each successive season since 1891 (Fl. Hx. 1904). On moist banks in woods. Summer and autumn.

Form **Stevensoni** Mass. Mon. Geoglosseæ Annals Bot. xi. p. 289. [*Leotia Stevensoni* B. & Br.; *L. chlorocephala* forma *Stevensoni* Phil.; *L. chlorocephala* Mass. Brit. Fung. Fl. iv. p. 271.].

N.E.—Scarboro', on the ground.

PEZIZACEÆ.

RHIZINA Fr.

1748. **Rhizina inflata** (Schæff.) Quel. [*R. undulata.* Fr.].

N.E.—Scarboro', on sawdust.

MID W.—Bishop's Wood near Selby (F.F., '96).

S.E.—Osgodby Wood '03 (W. N. Cheesman).

N.W.—'Druids Temple' near Masham.

On burnt sandy ground, also on peat. Hartig in "Diseases of Trees" (Engl. ed.) p. 123, states that this fungus is capable of living also as a tree parasite, proving very destructive to various conifers. It attacks the roots.

1749. **Rhizina myrothecioides** Mass. [*Psilopeziza.* B. & Br.].

N.W.—Masham, on decaying branch.

1750. **Rhizina Oocardii** [*Peltidium Oocardii* Kalch.; *Peziza (Humaria) Oocardii* Cke.; *Humaria.* Mass.; *Psilopeziza.* Rehm.].

S.W.—Rishworth; Norland; Stainland; and Erringden; on dead thorn-wood lying in streams; and on decaying larch cones in mossy swamp, Hebden Bridge (Fl. Hx.).

N.E.—Mulgrave Woods (F.F., 1900). Limber Wood near Egton Bridge, on decaying thorn-wood in water (F.F., '02).

N.W.—Masham ('Nat.', Jan. '02).

MID W.—Meanwood Valley, Leeds, on dead thorn-wood in wet place (Exc. '04).

For revised diagnosis made from freshly gathered British specimens, and for remarks see (New British Discomycetes Mass. & Crossl. 'Nat.', June 1901, pp. 188-189).

1751. **Rhizina Babingtonii** Mass. [*Psilopeziza.* B. & Br.].

N.E.—Scarboro', on rotten wood.

ACETABULA Fckl.

1752. **Acetabula vulgaris** Fckl. [*Peziza acetabulum* L.; *Helvella acetabulum* Quel.; *Aleuria acetabulum* Gillet].

S.W.—Halifax 1775 (Bolton, Cat. n. 468). Near the Altar Rock, Bingley, April '90 (H.T.S.).

N.E.—Scarboro'.

N.W.—Croft Spa 1879 (J. A. Wheldon).

Mid W.—Wetherby (Tr. i.). On the ground. Spring.

GEOPYXIS Pers. emend.

1753. **Geopyxis coccinea** (Scop.) Mass. [*Peziza.* Jacq.].

S.W.—Halifax 1789 (Bolton, Tab. 104); has entirely disappeared from this district. Roche Abbey Valley; Shipley; Holden Wood, Keighley (Lees' Fl.). Kiveton Park near Sheffield; locally known as 'Morrell Cups' ('Nat.', Ap. '01).

N.E.—Raincliff Wood, Scarboro'; Castle Howard (Tr. vi.). Coxwold.

Mid W.—Studley Woods; Bolton Woods; Bramhope; Wetherby (Lees' Fl.). Skipton; Silsden (Fl. Skipt.).

S.E.—Boynton (W.W.S.).

N.W.—Bedale (Exc. Circ. 158. June '01).

On rotten, fallen branches among moss in early spring. In the Scarboro' district it is common, and is collected and sold for decorative purposes mixed with moss.

Var. **albida** Mass.

N.E.—The Dale, Castle Howard, on dead branches.

1754. **Geopyxis radiculata** Mass. [*Peziza.* Sow.].

N.E.—Bulmer, on manure heaps.

1755. **Geopyxis parvispora** Mass. [*Sarcoscypha tenuispora* Cke. & Mass. Grev. xxi. p. 121].

N.E.—Scarboro'.

S.W.—Hebden Bridge, on wet sticks (Fl. Hx.).

1756. **Geopyxis cupularis** Sacc. [*Peziza.* L.].

Mid W.—Skipton Castle Wood '88 (C.C.).

S.W.—Hebden Bridge (Fl.Hx.). Goitstock, on clayey bank.

N.W.—Masham, on the ground in a wood ('Nat.' May '03.

1757. **Geopyxis carbonaria** Sacc. [*Peziza.* A. & S.].

Mid W.—Bramham, on scorched ground (F.F. '98).

1758. **Geopyxis albida** Mass. [*Aleuria albida* Gillet.; *Acetabula albida* Sacc.].

S.W.—Halifax, on greasy soil, warehouse basement. For revised diagnosis taken from these—the first British—speci-

mens see (New and Critical British Fungi: Crossl. 'Nat.' Jan. '1900, p. 7.).

PEZIZA Dill.

1759. **Peziza vesiculosa** Bull.

S.W.—Halifax 1790 (Bolton, Tab. 175). Common on rich soil, dung heaps, charred ground, in potato-fields, etc. In Sep '92 specimens 6 in. across were gathered on charcoal under the shade of half-burnt tree root in the grounds of the late J. W. Davis, Chevin Edge, near Halifax. In these fine examples the cells of the paraphyses were much more swollen, and the septa more constricted, than usual.

Distribution general. Edible.

1760. **Peziza cerea** Sow.

S.E.—Brough ('Nat.' Aug. '81).

S.W.—Near Goitstock, on tannery refuse.

A large wax-yellow peziza referred to this species is occasionally found in buildings of various kinds about Halifax and Hebden Bridge:—on disused moulding sand in foundry; on damp, dust-clogged walls of weaving-shed, dyehouses, warehouses, cellars, cellar-window areas, etc. In greenhouse, Crossland Hall, Huddersfield (G. T. Porritt, and Rev. W. Fowler). In Feb. '02 T. Hebden found it growing from the seams of a recently lime-washed greenhouse wall at Cullingworth. The exterior is not warted as in *P. vesiculosa* but clothed with a thin, white, adpressed tomentum.

1761. **Peziza reticulata** Grev.

Mid W.—Holden Wood and Gill Grange (Fl. Skipt.).

S.W.—On clay bank, Goitstock. Salterhebble (Fl. Hx.).

N.W.—Swinton and Masham ('Nat.' May 1903).

On bare ground. Spring.

1762. **Peziza linteicola** Phil. and Plow.

S.W.—Hebden Bridge, on decaying, cast-out carpet, sacking, straw, etc., several years in succession (Fl. Hx.).

1763. **Peziza repanda** Wahl.

S.W.—Frizinghall ('Nat.' Aug. '81). Sewage works, Bradford (Lees' Fl.). On the ground in a wood, Hebden Bridge (Fl. Hx.).

S.E.—Escrick, on dry banks in spring (W.N.C.). Edible.

N.E.—Helmsley, '03 (H. Slater).

1764. **Peziza sepiatra** Cke.

S.W.—Hebden Bridge, several places on road scrapings.

N.E.—Egton Bridge, on road scraping heaps (F.F. '02).

1765. **Peziza recedens** Boud.

S.W.—Lightcliffe, on the cortex side of rotting tub-garth partly lying in stagnant pool.

For diagnosis taken from these—the first British—specimens see (New Fungi: Myc. Members of the Union 'Nat.' Jan. '04. p. 4.).

1766. **Peziza venosa** Pers.

N.E.—Scarboro'. Coxwold (Exc. Circ. May '02).

S.W.—Conisboro' (H.B. Soc.). Sandal Beat, Doncaster (*'Nat.' June '83). Bradford ('Nat.' Feb.' 86). Cottingley (Lees' Fl.). Bingley (Fl. Skipt.). Skircoat (Fl. Hx.).

Mid W.—Camblesforth (Lees' Fl.). Roadside, Skipton to Bolton Woods; Silsden (Fl. Skipt.).

On the ground among *Petasites vulgaris* and other plants, in spring. Remarkable for its powerful odour of nitric acid, and one of the most delicious of edible fungi (Lees' Fl.).

1767. **Peziza ampliata** Pers.

N.E.—Scarboro', on rotten wood.

S.W.—Heath, Halifax, on decaying root (Fl. Hx.).

S.E.—Escrick, on thatched roof. '03 (W.N.C.).

Var. **tectoria** (Cke.) Mass.

S.W.—Halifax, on lime in wall crevice. Hebden Bridge, on damp plaster, and old dyeware tub (Fl. Hx.).

1768. **Peziza subrepanda** Cke. & Phil.

S.W.—Hebden Bridge, on road scrapings (Fl. Hx.). Campsall, on charred ground (F.F. '99).

Mid W.—Woodhall Bridge (F.F. '98).

1769. **Peziza Adæ** Sadler.

S.W.—Edlington (F.F. '91). Steeton, on limed wall (T.H.).

Mid W.—East Keswick (F.F. '98).

1770. **Peziza mellea** Cke. & Plow.

S.W.—Hebden Bridge, on decaying wood (Fl. Hx.).

S.E.—Riccall, on wood in woodyard, '03 (W.N.C.).

1771. **Peziza ochracea** Boud.

N.E.—Scarboro', on the ground under beeches.

N.W.—Masham, on ground under trees ('Nat.' Jan. '02).

1772. **Peziza badia** Pers.

Mid W.—Meanwood, Leeds (Lees' Fl.). Beckwithshaw and Studley Royal (F.F. '88).

S.W.—Coxley Valley. Hainworth; Bingley (Fl. Skipt.). Cullingworth. North Dean Wood; Luddenden Dean; and many places about Hebden Bridge (Fl. Hx.).

N.E.—Scarboro'. Castle Howard (F.F. '92).

N.W.—Masham ('Nat.' Jan. '02).

On the ground in moist, shady places.

1773. **Peziza saniosa** Schrader.

N.E.—Scarboro'. (Tr. iv.). On the ground and on old trunks in damp, shady places.

1774. **Peziza lividula** Phil.

S.W.—Luddenden Dean (Fl. Hx.). Maltby Wood (T. Gibbs).

N.W.—Thorsgill (F.F. '04). On the ground in damp places.

1775. **Peziza succosa** Berk.

N.E.—Scarboro'. Mulgrave Woods (F.F. '94; 1900; '02.). Stokesley (Exc. '99). On stiff, clayey, shaded ground.

N.W.—Masham, '03, on stiff ground.

Remarkable on account of yielding a yellow juice when the flesh is broken.

1776. **Peziza pustulata** Pers.

S.W.—Nr. Hebden Bridge (Fl. Hx.). Goitstock.

N.W.—Masham ('Nat.' Jan. '02).

N.E.—Helmsley (F.F. '03).

S.E.—Swan Island, Hornsea Mere '03 (A. R. Warnes).

On charred, and other ground.

OTIDEA Pers. in part.

1777. **Otidea leporina** (Batsch) Fckl.

N.E.—Scarboro', on the ground in woods. Littlebeck, Whitby (W.W.S.). Mulgrave Woods (F.F. '94). Helmsley (F.F. '03).

S.W.—Heaton, Bradford ('Nat.' Feb. '86). Goitstock. Heptonstall; accidentally omitted from Fl. Hx.

S.E.—Skipwith, 1904.

1778. **Otidea neglecta** Mass. Grev. xxii. p. 66.

N.E.—Scarboro', on the ground.

1779. **Otidea auricula** (Schæff.) Mass. Grev. xxii. p. 65.

N.E.—Scarboro', on the ground.

1780. **Otidea micropus** Sacc. [*Peziza*. Pers.]

S.W.—Keighley (Fl. Skipt.).

1781. **Otidea phlebophora** Sacc. [*Peziza*. B. & Br.]

N.E.—Rievaulx, on dry woodland bank (F.F. '03).

1782. **Otidea cochleata** Fckl. [*Peziza*. Bull.]

S.W.—Halifax 1789 (Bolton, Tab. 99). Copley; Elland; Wheatley; Pellon; and several places near Hebden Bridge (Fl. Hx.). Paddock, Huddersfield. On the ground.

N.E.—Scarboro'. Bulmer. Mulgrave Woods (F.F. '1900).

Mid W.—Lindley Valley, on moss on old walls (Lees' Fl.). East Keswick, on the ground (F.F. '98).

S.E.—Boynton (W.W.S.). Everingham (F.F. '93).

1783. **Otidea alutacea** Mass. [*Peziza*. Pers.]

N.E.—Scarboro', on shaded ground. Helmsley (F.F. '03).

Mid W.—Woodhall Bridge (F.F. '98).

1784. **Otidea onotica** Fckl. [*Peziza*. Pers.].

N.E.—Scarboro'. Castle Howard (F.F. '92).

S.W.—Elland; accidentally omitted from Fl. Hx.

1785. **Otidea aurantia** Mass. [*Peziza*. Pers.].

S.W.—Halifax 1789 (Bolton, Tab. 100). The records for this and the Mid W. divisions too numerous to give in detail.

N.E.—Scarboro'. (Tr. iv.). Bulmer. Castle Howard and Welham Park (F.F. '92). Rievaulx (F.F. '03).

S.E.—Escrick (F.F. '96).

N.W.—Masham ('Nat.' Jan. '02). Rokeby (F.F. '04).

On the ground, about rotting stumps; on road sides; garden walks; woodland banks, etc. Common.

Var. **atromarginata** Phil. & Plow.

S.W.—Edlington Woods (F.F. '91).

1786. **Otidea luteo-nitens** Mass. [*Peziza*. B. & Br.].

N.E.—Scarboro, on the ground.

N.W.—Masham ('Nat.' Jan. '02). On bare ground.

1787. **Otidea leuculenta** Mass. [*Peziza*. Cke.]

S.W.—Goitstock, on the ground under trees.

CURREYELLA Mass.

1788. **Curreyella radula** Mass. [*Peziza*. B. & Br.].

N.E.—Scarboro', on the ground in woods.

1789. **Curreyella trachycarpa** Mass. [*Peziza trachycarpa* Curr.; *Detonia trachycarpa* Sacc.].

S.W.—Hebden Bridge; Norland; on burnt ground (Fl. Hx.).

BARLÆA Sacc.

1790. **Barlæa constellatio** Sacc. [*Peziza*. B. & Br.].

N.E.—Scarboro', on the ground.

1791. **Barlæa modesta** Sacc. [*Peziza*. Karst.].

S.W.—Luddenden Dean, Warley, near Halifax, among mosses and hepatics on sandy soil in a wood. For diagnosis taken from these—the first British—specimens see (New British Fungi: Sopp. and Crossl. 'Nat.' Jan. '99, also June'01).

1792. **Barlæa Crouani** Mass. [*Ascobolus miniatus* Crouan; *Peziza Crouani* Cke. Grev. iii.; *Barlæa miniata* Sacc.; etc.].

Mid W.—Horsforth (Tr. ix.). Harrogate; Allerton (Lees' Fl.). Grassington (Fl. Skipt.). Knaresboro' 1804 (H. Fisher).

N.E.—Scarboro', on the ground among moss.

S.W.—Horton; Wibsey; Saltaire; Steeton, etc. (Lees' Fl.). Bingley; Cullingworth (Fl. Skipt.). Many places near Hebden Bridge; Copley; and Elland (Fl. Hx.).

Always among moss on wall tops, or sides, or on the ground. Not uncommon.

1793. **Barlæa cinnabarina** Sacc. [*Peziza lætirubra* Cke.; *Crouania cinnabarina* Fckl.].

S.W.—Hebden Bridge, on sandy ground ('Nat.' June '94).

1794. **Barlæa astroidea** Sacc. [*Peziza.* Hazsl.].

Mid W.—Bolton Abbey Bridge, on mossy wall (H.T.S.).

S.W.—Shibden; Copley; Skircoat; Elland; and Stansfield (Fl. Hx.).

On the ground, and walls, among moss. Closely allied to *B. Crouañi.*

1795. **Barlæa Persoonii** Sacc. [*Ascobolus Persoonii* Crouan; *Peziza atro-violacea* Del. de Seyn.; *Peziza violascens* Cke.; *Barlæa violascens* Mass.].

S.W.—Elland; Salterhebble; Hebden Bridge; etc (Fl.Hx.).

N.E.—Scarboro', on damp soil.

Mid W.—Woodhall Bridge (F.F. '98).

Up to the time of the Hebden Bridge specimens being found this sp. was confused with *P. violascens* Cke. For revised diagnosis and full explanatory remarks see (New and Critical British Fungi: Crossl. 'Nat.' Jan, 1900. p. 9).

1796. **Barlæa areolata** Mass. [*Boudiera areolata* Cke.].

S.W.—Norland, on damp ground in a clough (Fl. Hx.).

HUMARIA Fr.

1797. **Humaria rubens** Boud.

S.W.—Hebden Bridge. For diagnosis taken from these—the first British—specimens, and remarks, see (New British Fungi: Sopp. & Crossl. 'Nat.' Jan. '99. pp. 27-28). Cullingworth. Among moss on walls and on the ground.

1798. **Humaria Chateri** Sacc. [*Peziza.* W.G.S.].

N.E.—Scarboro', on road scrapings heaps.

S.W.—Heptonstall, on damp ground (Nat.' June '94).

1799. **Humaria humosa** Sacc. [*Peziza.* Fr.].

S.W.—Goole (Lees' Fl.).

1800. **Humaria hæmastigma** Mass. [*Octospora.* Hedw.; *Peziza.* Phil.; *Pyronema.* Sacc.].

S.W.—Hebden Bridge, on wall mortar (Fl. Hx.).

1801. **Humaria rutilans** Sacc. [*Peziza rutilans* Fr., Syst. Myc. ii. p. 68 (1823) (not of Phil., Brit. Disc. p. 89).

S.W.—Halifax 1789. "Grows on old walls and rocks amongst moss, particularly *Polytrichum minus*" (Bolton, Tab.

101. fig. 1). Goole ('Nat.' Aug. '81). Cottingley, on the ground in a plantation (Lees' Fl.).

N.E.—Scarboro', on the ground among moss.

S.E.—North Cave, among *Polytrichum* (A. R. Warnes).

The present species has been confused with *Neottiella polytrichi* (Schum) in this country. For synonymy, and results of consultation of exsiccati, relating to the two species see Grevillea xxii. pp. 107-110, where both are figured; see also Mass., Brit. Fung. Fl. iv. pp. 371-2, and 406-7.

1802. **Humaria Piggotii** Sacc. [*Peziza*. B. & Br.].

S.W.—Halifax, on damp, colour-washed wall-plaster, in a room at the Higher Board School, 1895 (Fl. Hx.).

1803. **Humaria convexula** Quel. [*Peziza*. Pers.].

S.W.—Hebden Bridge: two or three places; Hipperholme; North Dean Wood; Elland Park Wood (Fl. Hx.).

N.W.—Masham ('Nat.' May '03).

On soil among moss on walls and on the ground.

1804. **Humaria carbonigena** Sacc. [*Peziza*. Bk.].

N.E.—Raincliff Wood, Scarboro', on charcoal bed.

S.W.—Nr. Hebden Bridge; North Dean Wood (Fl. Hx.). Goitstock. All on charred ground.

Mid W.—East Keswick, on burnt soil (F.F. '98).

Var. **fusispora** Mass. [*Peziza fusispora* Berk.].

S.W.—Shipley Glen, on heathy ground (Lees' Fl.).

1805. **Humaria omphalodes** Mass. [*Peziza*. Bull.].

N.E.—Scarboro', on burnt ground.

S.W.—Eller Carr, Cullingworth, on tan refuse.

Mid W.—Bramham, on charred ground (F.F. '98).

1806. **Humaria melaloma** Mass. [*Peziza*. Cke.].

N.E.—Near York (G.M.). Scarboro'.

Mid W.—Stainer Wood, Selby (F.F. '96).

S.W.—Cadeby, on burnt ground (F.F. '01). Hebden Bridge in similar habitat (Fl. Hx.).

N.E.—Egton Bridge (F.F. '02). On burnt ground.

1807. **Humaria macrocystis** Sacc. [*Peziza.* Cke.].

S.W.—Nr. Hebden Bridge: two or three places; Elland Park Wood, on burnt ground (Fl. Hx.).

S.E.—South Cave, on burnt ground (Exc. '94).

1808. **Humaria Roumegueri** Sacc. [*Peziza.* Karst.].

Mid W.—Crimple near Harrogate, on damp, slightly peaty ground ('Nat.' Ap. '98; and June '01).

S.W.—Broadbottom near Hebden Bridge, on the ground (Fl. Hx.).

Var. **carnosissima** Phil.

S.W.—Crimsworth, on heathy ground (Fl. Hx.), moorland track between Stanbury and Hebden Bridge ('Nat.' Feb. '03).

1809. **Humaria granulata** Sacc. [*Peziza.* Bull.].

Very common throughout Yorkshire on cow-dung in fields; most prevalent in moist shaded places bordering woods.

On stable manure, Halifax.

1810. **Humaria subhirsuta** Mass. [*Peziza.* Schm.].

N.E.—Scarboro', on damp ground.

S.W.—Elland Park Wood, May 1896 in great quantity. A patch of ground three or four yards in extent was so covered with the multitude of ascophores as to appear an almost unbroken yellow. In 1897 the fungus was only sparingly scattered at the same spot, and during 1898-9 disappeared altogether; Norland '98 (Fl. Hx.).

1811. **Humaria deerrata** Sacc. [*Peziza deerrata* Karst.; *Pseudombrophila Pedrottii* Boud.; *Helotium Pedrottii* Bres.].

S.W.—Hebden Bridge, on flax or jute backing of rotting, cast-out hearthrug. For diagnosis taken from these—the first British—specimens see (New British Fungi: Sopp. & Crossl. 'Nat.' Jan. '99, pp. 28 & 31, figs. 1-8; also, for further remarks, 'Nat.' June '01.).

1812. **Humaria violacea** Sacc. [*Peziza.* Pers.].

N.E.—Bulmer, on scorched ground. Egton Bridge, similar habitat (F.F. '02).

S.W.—Hebden Bridge, on the ground, and in the seams of a wall; Elland, on bare ground under butterbur; Barkisland, on moist bank (Fl. Hx.). Goitstock, on charred ground.

1813. **Humaria hepatica** Sacc. [*Peziza.* Batsch].

S.W.—Greenfield; Heaton Woods near Bradford; Wibsey; etc. (Lees' Fl.). Potridings Wood (F.F. '01).

Among mosses and hepatics on the ground, old stumps, etc.

1814. **Humaria purpurascens** Sacc. [*Peziza.* Pers.].

N.E.—Scarboro', on the ground.

S.W.—Hebden Bridge (Fl. Hx.).

N.W.—Masham, on damp ground.

1815. **Humaria jungermanniæ** Sacc. [*Ascobolus jungermanniæ* B. & Br.; *Peziza.* Nees.].

S.W.—Near Keighley (Lees' Fl.). Hudson Clough, Stansfield (Fl. Hx.). On the ground among hepatics.

1816. **Humaria salmonicolor** Sacc. [*Peziza.* B. & Br.].

N.E.—Seamer Moor, Scarboro', on the side of a ditch.

S.W.—Sheffield, on horse dung ('Nat.' Ap. '02).

1817. **Humaria domestica** Mass. [*Peziza.* Sow.].

N.E.—Scarboro', on damp wall.

S.W.—Saltaire on white-washed walls in cellar (Tr. iv.). Eller Carr, Cullingworth, on paper among manure.

1818. **Humaria cervaria** (Phil.) Sacc.

S.W.—Hebden Bridge, on sheep, and rabbit, dung (Fl. Hx.).

1819. **Humaria leporum** Cke. [*Peziza misturæ* Phil.; *Humaria misturæ* Sacc. See 'Nat.' June 1901.].

N.E.—Scarboro', on road scrapings.

S.W.—Eccleshill near Bradford, on limed wall.

1820. **Humaria fimeti** Symb. Myc., App. i., p. 50. [*Peziza bovina* Phil.; *Humaria bovina* Sacc. See 'Nat.' June 1901.].

S.W.—Copley, on cow dung (Fl. Hx.).

SEPULTARIA Cke. emend.

1821. **Sepultaria sepulta** Mass. [*Peziza sepulta* Fr.; *Lachnea sepulta* Phil.].

N.E.—Scarboro', on the ground.

1822. **Sepultaria semiimmersa** Mass. [*Peziza semiimmersa* Karst.; *Humaria semiimmersa* Sacc.].

N.E.—Seamer Moor, Scarboro', on the ground under firs.

S.W.—Hebden Bridge, two or three places on moist banks.

1823. **Sepultaria coronaria** Mass. [*Peziza*. Jacq.].

N.E.—Scarboro', on the ground under beeches.

LACHNEA Fr.

1824. **Lachnea carneo-sanguinea** Phil. [*Humaria*. Fckl.; *Peziza (Sarcoscypha)*. Cke.].

S.W.—Eller Carr, Cullingworth, on tan yard refuse.

1825. **Lachnea contorta** Mass. and Crossl.

Mid W.—Selby, on naked ground (New British Discomycetes Mass. & Crossl. 'Nat.', June 1901,pp. 182-4, figs. 7-11).

1826. **Lachnea umbrata** Phil. [*Peziza*. Fr.].

S.W.—Morley ('Nat.', Aug. '81). Newsholme Dean (Lees' Fl.). Heptonstall, Aug. '04, on the ground among moss.

Mid W.—River-side, Ilkley (Lees' Fl.).

N.W.—Rokeby, on the ground among moss (F.F. '04).

1827. **Lachnea coprinaria** Phil. [*Peziza*. Cke.].

S.W.—Frequent on cow-dung throughout the parish of Halifax (Fl. Hx.). Goitstock.

N.E.—Bulmer. Scarboro'. Egton Bridge (F.F. '02). Helmsley (F.F. '03). On cow-dung.

Mid W.—Harewood; East Keswick (F.F. '98).

N.W.—Masham ('Nat.', May '03). Rokeby (F.F. '04).

1828. **Lachnea stercorea** Gillet [*Peziza*. Pers.].

S.W. "In fields about Halifax plentifully" 1782 (Bolton, Tab. 108. f. 1.). Still common here (Fl. Hx.). Bingley ('Nat.' Aug. '81). Saltaire, on cow-dung (Lees' Fl.).

Mid W.—Skipton (*'Nat.', May '71). Roundhay; Arncliffe (Tr. iv.). Baildon; Hawksworth (Lees' Fl.). Bolton Abbey (Fl. Skipt.).

N.E.—Scarboro' (Tr. iv.). Bulmer, on cow dung.

S.E.—Boynton (W.W.S.).

N.W.—Brignall (F.F., '04).

On the dung of various animals.

1829. **Lachnea crucipila** Phil. [*Peziza crucipila* Cke. & Phil.; *Neottiella crucipila* Sacc.].

N.E.—Scarboro, on cow dung.

S.W.—Nr. Sheffield, on horse dung ('Nat.' Ap. '02).

1830. **Lachnea setosa** Phil. [*Peziza*. Nees.].

N.E.—Scarboro', on rotten wood.

S.W.—Binnroyd Clough, Norland, on fragments of rotting wood embedded in clayey ground (Fl. Hx.).

Mid W.—Meanwood, on wet rotting wood (Exc. '04).

N.W.—Rokeby (F.F. '04).

1831. **Lachnea hybrida** Phil. [*Peziza*. Sow.].

Var. **lapidaria** (Cke.) Mass.

S.W.—Halifax, on soil in seams between paving stones in a warehouse yard, several seasons (Fl. Hx.).

1832. **Lachnea ascoboloides** Mass. [*Peziza ascoboloides* Bert.; *P. eclecta* Berk & Cke.; *Neottiella ascoboloides* Sacc.].

S.W.—Sun Wood, Lightcliffe, on damp, clayey soil ('Nat.' June '94). Hebden Bridge, on old horse dung (Fl. Hx.). Bingley, on old human dung (T.H.).

1833. **Lachnea hirta** Gillet [*Peziza*. Schum.].

Mid W.—Hackfall, on the ground (Lees' Fl.).

S.W.—North Dean Wood (Fl. Hx.). Nr. Hebden Bridge, Aug. '04, among moss. Goitstock, on mossy, rotten wood.

N.E.—Staithes (* 'Nat.', Ap. '98).

1834. **Lachnea scutellata** Gillet. [*Peziza*. L.].

S.W.—Halifax, 1775 (Bolton's Cat. n. 470).

Common on rotting branches, trunks, and other wood in damp, shady places; occasionally on soil near old stumps, rotting sacking, etc, Records numerous for each county division.

The *L. hirto-coccinea* record, 'Nat.' June '94, belongs here. (Mass. Brit. Fung. Fl. iv. p. 315, figs. 20-21, p. 290).

1835. **Lachnea umbrorum** Gillet [*Peziza umbrosa* Fr.; *P. umbrorum* Cke., Myc. fig. 138].

S.W.—Common on damp ground, or on road scrapings in shady places in the Halifax and Hebden Bridge districts (Fl. Hx.). Cullingworth, on tan refuse.

Mid W.—Bolton Woods (Fl. Skipt.).

N.W.—Masham, on the ground and rotten wood ('Nat.' Jan. '02).

N.E.—Egton Bridge, on the ground (F.F. '02).

1836. **Lachnea vitellina** Gillet [*Peziza*. Pers.].

N.E.—Scarboro', on damp earth ('Nat.' Aug. 81).

1837. **Lachnea theleboloides** Gillet [*Peziza*. A. & S.].

N.E.—Falsgrave, Scarboro', on heap of spent hops.

S.W.—Skircoat, Halifax, on spent hops, in great abundance (Fl. Hx.). Cullingworth, on decaying tan-refuse.

1838. **Lachnea Dalmeniensis** Phil. [*Peziza*. Cke.].

S.E.—Everingham, on the ground (F.F. '93).

S.W.—Hebden Bridge (Fl. Hx.). Birdwell; Hugsett; Stainboro', on the ground in woods, among nettles (F.F. '97).

N.E.—Mulgrave Woods, on the ground among nettles (F.F. 1900).

1839. **Lachnea Lojkæana** Rehm. Krypt. Flo. Disc. [*Peziza luteopallens* Cke. Myc. f. 156; *Neottiella luteopallens* Sacc.]

S.W.—Hebden Bridge, on soil adhering to an old tub in dyehouse yard (New British Discomycetes Mass. & Crossl. 'Nat.' June 1901, p. 183.).

1840. **Lachnea fimbriata** Quel.; Cke. Mycogr. pl. 113, fig. 405).

S.W.—Halifax, on moist street dust adhering to the wall in shop cellar window area, May to Nov. 1902; Sep. & Oct. '03; July '04; the first and second years in abundance (Fl. Hx.).; also ('Nat.' Ap.'03). Previously only known to occur in France.

1841. **Lachnea hemispherica** Gillet [*Peziza*. Wigg.].

S.W.—"In the shady part of Elland Park (Wood) where the ground is wet and the soil consists solely of vegetable mould" (Bolton, unpublished Tab. 209, in Brit. Mus. Nat. Hist. coll.); not found here recently. Nab Wood, Saltaire (Lees' Fl.). Edlington Wood (F.F. '91).

N.E.—Raincliff Wood, Scarboro', on the ground. Mulgrave Woods, on the ground (F.F. '94). Helmsley (F.F. '03).

S.E.—Howsham Woods nr. Kirkham (*'Nat.' Nov. '89). Everingham (F.F. '93). Escrick (F.F. '96). Houghton Woods, Market Weighton (Exc. '97). On the ground.

Mid W.—Bolton Woods (Fl. Skipt.). Stainer, and Bishops' Wood) F.F. '96). Harewood (F.F. '98).

N.W.—Masham, on the ground in woods '03 (Mass. Brit. Fung. Fl. iv. 318, figs. 5-9, p. 290.).

1842. **Lachnea albo-spadicea** Phil. [*Peziza*. Grev.].

S.W.—Calverley '92 (H.T.S.). Luddenden Dean (Fl. Hx. Add.).

N.E.—Staithes (*'Nat.' Ap. '98). Mulgrave (F.F. 1900).

N.W.—Masham '03. Rokeby (F.F. '04).

On bare, damp, heavy ground in woods.

1843. **Lachnea sublivida** Sacc.

S.W.—Hebden Bridge in iron foundry, on pig-iron covered with a thin layer of damp dust and black moulding sand (Mass. Brit. Fung. Fl. iv. p. 320); foundry yard, Pellon (Fl. Hx.). On tan refuse, Cullingworth. Previously only known to occur in Italy.

1844. **Lachnea gregaria** Phil. [*Peziza*. Rehm.].

S.W.—Hebden Bridge, on sandy soil in a wood (Fl. Hx.).

N.E.—Stokesley (Exc. '99). On the ground.

1845. **Lachnea cretea** Phil. [*Peziza*. Cke.].

S.W.—Hebden Bridge, on newly-limed wall (Fl. Hx.).

1846. **Lachnea erinacea** Sacc. [*Peziza*. Schw.].

N.E.—Scarboro', on rotten wood.

S.W.—Royston, nr. Barnsley, on twig in swamp (F.F. '97).

N.W.—Masham, '03, on damp, rotting sticks.

NEOTTIELLA Cke.

1847. **Neottiella polytrichi** Mass. Brit. Fung. Fl. iv. pp. 370-372 with fig. [*Peziza polytrichi* Schum.; *P. rutilans* Phil., Brit. Disc. p. 89.]. See. n. 1801.

N.E.—Scarboro', on the ground among moss.

1848. **Neottiella leucoloma** Mass. [*Octospora*. Hedw.; *Peziza*. Fr.; *Humaria*. Boud.; *Leucoloma Hedwigii* Fckl.].

N.E.—Scarboro', on the ground among moss.

S.W.—North Dean Wood; Hebden Bridge (Fl. Hx.).

1849. **Neottiella nivea** Sacc. [*Peziza.* Romell.].

S.W.—Norland, Sep. '92; Hebden Bridge: several places; Luddenden Dean (Fl. Hx.). Sun Wood, Lightcliffe, nr. Halifax '04. Cullingworth.

N.E.—Mulgrave Woods, on the ground (F.F. '94).

Has a preference for stiff, rather clayey soil in woods.

1850. **Neottiella fossulæ** Sacc. [*Peziza.* Limm.].

S.W.—Heaton Woods near Bradford ('Nat.' June '94).

SPHÆROSPORA Sacc.

1851. **Sphærospora trechispora** Sacc. [*Peziza.* B. & Br.; *Lachnea.* Gillet; *Sphærospora asperior* Sacc.; *Peziza asperior* Nyl.].

S.E.—Brough (*'Nat.' July '78). Staddlethorpe (Tr. ii.). Filey, on the ground among moss. South Cave (Exc. '94).

Mid W.—Malham (Tr. ii.). Horton-in-Ribblesdale ('Nat.' Aug. '81). Denton Wood, Ilkley, on the ground (Lees' Fl.).

S.W.—Brighouse (H.B. Soc.). Huddersfield. Norland; Luddenden Dean; Lightcliffe; and many places near Hebden Bridge (Fl. Hx.). Cullingworth. Bingley (Fl. Skipt.).

N.E.—Bulmer; Scarboro', on naked, damp ground. Roxby Glen, Staithes (*'Nat.' Ap. '98). Stokesley (Exc. '99). Mulgrave Woods (F.F. '94 & 1900).

1852. **Sphærospora hinnulea** Mass. [*Peziza.* B. & Br.].

N.E.—Mulgrave Woods (F.F. '94).

1853. **Sphærospora citrina** Mass. & Crossl.

N.E.—Redcar, on peaty ground (E. M. Holmes).

For diagnosis see (New Fungi, 'Nat.' Jan. 1904, pp. 4-5). The only species of *Sphærospora* having a clear yellow disc.

1854. **Sphærospora nigrella** Mass. [*Peziza.* Pers.].

N.E.—Scarboro', on rotten pine-trunk.

DESMAZIERELLA Lib. emend.

1855. **Desmazierella acicola** Lib.

(Mass. Brit. Fung. Fl. pp. 324-325, with figure).

S.W.—Crimsworth Dean, near Hebden Bridge, on fallen leaves of *Pinus sylvestris.* This most peculiar *Peziza* was met with here in great abundance in the spring of 1897;

since then not a single ascophore has been found, though carefully sought for each season (Fl. Hx.).

DIPLOCARPA Mass.

1856. **Diplocarpa Curreyana** Mass [*Peziza diplocarpa* Currey; *Lachnella diplocarpa* Phil.; *Encælia Bloxami* Phil.; *Cenangium Bloxami* Sacc.].

N.E.—Mulgrave Woods, on wet rotting wood (F.F. 1900).

For emended specific diagnosis of *D. Curreyana* from the fresh specimens, and for note on the generic description as given in Mass. Brit. Fung. Fl. iv. p. 307. see (New British Discomycetes, Mass. & Crossl. 'Nat.' June 1901, pp. 181-182).

DASYSCYPHA Fr.

1857. **Dasyscypha virginea** Fckl. [*Peziza virginea* Batsch; *Lachnella virginea* Phil.; etc.].

Very common. Occurs on decaying branches and twigs of most forest trees, dead shoots of *Rubus sp.*, herbaceous stems, beech mast, etc., often in crowds; was found at Masham on a heap of scorched furze branches. Records numerous for each county division.

1858. **Dasyscypha scintillans** Mass.

S.W.—Bradford district, on dead oak-leaves.

1859. **Dasyscypha rhytismatis** (Phil.) [*Lachnella rhytismæ* Phil.; *Lachnum echinulatum* (Awd.) Rehm.; *Dasyscypha echinulata* Sacc.].

N.E.—Scarboro', on dead leaves.

S.W.—Sunwood, Lightcliffe, Hx., on dead leaves.

1860. **Dasyscypha nivea** Sacc. [*Octospora.* Hedw.; *Trichopeziza.* Fckl.; *Lachnum.* Karst.; *Lachnella.* Phil.].

Common on dead wood, etc. Records for each county division too numerous to detail.

1861. **Dasyscypha acutipila** Sacc. [*Peziza.* Karst. Mon. Pez.; *Lachnum.* Karst. Myc. Fenn.; *Lachnella.* Phil.].

S.W.—Mixenden; Rishworth; Hebden Bridge, etc., on decaying rush and grass stems (Fl. Hx.). Wyming Brook, Redmires near Sheffield.

S.E.—Houghton (Exc. '97). Hornsea Mere (Exc. 1900).

Mid W.—Askham Bog, on grass stems (Exc. 1900).

N.E.—Egton Bridge, on wet decaying grass (F.F. '02).

N.W.—Bowes, on dead rushes (*'Nat.' Sep. '03).

1862. **Dasyscypha Soppittii** Mass.

S.W.—Bradford. Shelf; Norland; North Dean; Hebden Bridge, etc. (Fl. Hx.). On dead sycamore and oak leaves. (Mass. Brit. Fung. Fl. iv. p. 330, fig. 12, p. 156.

1863. **Dasyscypha inquilina** Wint. [*Lachnum.* Karst.].

S.W.—Crimsworth Dean, Hebden Bridge, on *Equisetum sylvaticum.*

For diagnosis of these—the first British specimens, see (New British Discomycetes Mass. & Crossl. 'Nat.' June 1901, p. 183).

1864. **Dasyscypha crucifera** Sacc. [*Peziza crucifera* Phil. Gard. Chron. 1878, p. 397, f. 71; *Lachnea.* Phil. Brit. Disc.].

S.W.—Lightcliffe; Ovenden (Fl. Hx.). On dead holly-leaves.

N.W.—Masham, on decaying twigs ('Nat.' May '03).

1865. **Dasyscypha bicolor** Fckl. [*Peziza.* Bull.].

N.E.—Bulmer; Scarboro', on dead hazel-leaves. (Tr. iv.).

S.W.—Rawcliffe (Lees' Fl.). Elland Park Wood, on bark (Fl. Hx.). Goitstock, on exposed portion of living root.

Mid W.—Selby (Lees' Fl.).

N.W.—Masham, on dead branches ('Nat.' Jan. '02).

1866. **Dasyscypha lætior** Sacc. [*Lachnum lætius* Karst.].

S.W.—Hebden Bridge, on canes of *Rubus idæus* (Fl. Hx.).

N.W.—Masham, under similar conditions ('Nat.' May '03).

Karsten, in his latest description, says this differs from *D. bicolor* in the septate paraphyses, thinner, closely septate hairs, and in growing on *Rubus sp.* For diagnosis of these—the first British specimens, see (New Fungi: 'Nat.' Jan. '04, p. 5).

1867. **Dasyscypha patula** Sacc. [*Peziza*. Pers.; *Erinella*. Quel.; *Hyalopeziza*. Fckl.; *Lachnea*. Gillet; *Lachnella*. Phil.].

N.E.—Bulmer, on dead oak-leaves.

S.W.—Near Hebden Bridge; and Elland (Fl. Hx.).

1868. **Dasyscypha conformis** Sacc. [*Lachnella*. Cke.].

S.W.—Heptonstall, on dead grass roots and stems (Fl. Hx.).

1869. **Dasyscypha leuconica** Mass. [*Peziza*. Cke.; *Lachnella*. Phil.].

S.W.—Huddersfield (F.F. '95). Many places in the Halifax; Elland; Luddenden; and Hebden Bridge districts, on damp, decaying wood and bark (Fl. Hx.). Cullingworth. Redmires near Sheffield.

1870. **Dasyscypha candidata** Mass. [*Peziza*. Cke.; *Lachnella*. Phil.; *Trichopeziza*. Sacc.].

S.W.—Luddenden Dean, on dead stems of *Rubus sp.* (Fl. Hx.).

1871. **Dasyscypha ciliaris** Sacc. [*Peziza ciliaris* Schrad.; *Lachnella ciliaris* Phil.; *L. echinulata* Phil.; *Lachnum*. Rehm.].

N.E.—Scarboro', on dead oak-leaves.

S.W.—Nab Wood, Saltaire (Lees' Fl.). Savin Royd near Barnsley (F.F. '97). Bingley (Fl. Skipt.). Lightcliffe; Elland; Luddenden Dean; Hebden Bridge; etc. (Fl. Hx.). On oak-leaves.

(Mass. Brit. Fung. Fl. iv., pp. 335-336, figs. 1-2, p. 156).

1872. **Dasyscypha ascuna** Mass. [*Lachnella*. Phil.].

S.W.—Elland Park Wood, on dead *Carex pendula* (Fl. Hx.).

1873. **Dasyscypha aranea** Mass. [*Peziza*. De N.].

N.E.—Castle Howard Park, inside Spanish chestnut husks.

1874. **Dasyscypha acuum** Sacc. [*Peziza*. A. & S.; *Helotium*. Karst.; *Lachnella*. Phil.; *Phialea*. Rehm. Krypt. Fl.].

N.E.—Castle Howard ('Nat.' Aug. '81).

S.W.—Hebden Bridge, on pine needles (Fl. Hx.).

N.W.—Masham, on pine needles ('Nat.' Jan. '02).

1875. **Dasyscypha aspidiicola** Sacc. [*Peziza.* B. & Br.].

S.W.—Common in the Halifax and Hebden Bridge districts on decaying ferns, including bracken; mostly on *N. Filix-mas:* occasionally on *Equisetum* (Fl. Hx.).

N.W.—Masham, on dead bracken stem ('Nat.' Jan. '02).

Mid W.—Bolton Woods (Fl. Skipt.).

N.E.—Mulgrave Woods (F.F. 1900).

1876. **Dasyscypha hyalina** Mass. [*Peziza.* Pers.; *Pseudohelotium.* Fckl.; *Helotium.* Karst:; *Lachnella.* Phil.; etc.].

Common everywhere on decaying wood, chips, rails, inside cast-bark, etc., in damp, shady places; grows in crowds. Records numerous for each county division.

1877. **Dasyscypha carinata** Mass. Brit. Fung. Fl. iv., p. 339, figs. 24-25, p. 156. [*Trichopeziza.* Cke. & Mass. Grev. xxi., p. 121].

S.W.—High Greenwood, Hebden Bridge, on decaying fern stem, April '93 (Fl. Hx.).

1878. **Dasyscypha punctoidea** Mass. [*Helotium.* Karst.; *Lachnella.* Phil.; *Pseudohelotium.* Sacc.].

S.W.—Near Hebden Bridge, on dead stems of *Epilobium hirsutum* (Fl. Hx.).

S.E.—Filey, on dead stems of *Epilobium* (*'Nat.' Jy. '03).

1879. **Dasyscypha fugiens** Mass. [*Lachnella.* Phil.].

S.W.—Norland; Elland; and about Hebden Bridge, on wet, dead rush stems; extremely minute (Fl. Hx.).

N.E.—Hackness (Exc. '97).

S.E.—Hessle (Hull S. & F. N. C.). Filey (*'Nat.' Jy. '03).

1880. **Dasyscypha calycina** Fckl. [*Peziza calycina.* Schum.; *Lachnella.* Gillet; *P. Wilkommii.* Hartig; etc.].

Only too common as a parasite on larch, and Scots fir or pine = *Pinus silvestris.* Has been noted at most of the Fungus Forays where these two conifers have been met with. Records for each county division too numerous to detail. Is recorded from Masham on Weymouth pine = *Pinus strobus*, and spruce fir = *Abies Douglassii* ('Nat.' May '03).

"The fungus is a wound parasite, its spores entering the tissue through wounds caused by insects, hailstones, and more especially by branches being more or less split from the trunk by snow. . . ." (Mass. Text-Book of Plant Diseases, pp. 145-148, fig. 30).

Has once been found growing as a saprophyte on pine log on a quarry-hill at Hipperholme (Fl. Hx.), but the ascophores were much less robust than those found under the ordinary conditions.

1881. **Dasyscypha subtilissima** Sacc. [*Peziza*. Cke.].

N.E.—Scarboro', on living larch-bark.

S.W.—Hebden Bridge district (Fl. Hx.). Savin Royd Wood, near Barnsley (F.F. '97). On living larch trees.

N.W.—Masham ('Nat.' Jan. '02).

Resembling *D. calycina* in general appearance, but differs in its much smaller spores.

1882. **Dasyscypha resinaria** Sacc. [*Peziza*. Cke. & Phil. Grev. iv. p. 121. *Lachnella*. Phil. Brit. Disc. p. 224].

N.E.—Scarboro,' on resin and bark of spruce fir.

1883. **Dasyscypha horridula** Mass. [*Peziza*. Desm.].

N.E.—Bulmer, on dry wheat straw.

1884. **Dasyscypha canescens** Mass. [*Lachnella*. Phil.].

N.E.—Scarboro', on dead wood.

1885. **Dasyscypha albo-testacea** Mass. [*Peziza*. Desm.; *Lachnella. Quel.; Trichopeziza*. Sacc.].

S.W.—Salterhebble, Halifax, on dead grass (Fl. Hx.).

Mid W.—Askham Bog, on wet, decaying grass (Exc. 1900).

N.W.—Masham, on dead grass.

S.E.—Filey, on wet, decaying grass stems (*'Nat.' Jy. '03).

1886. **Dasyscypha controversa** Rehm. [*Peziza*. Cke. Grev. iv. p. 41, pl. 51, fig. 264; *Lachnum*. Rehm. Krypt. Fl. Disc.].

S.W.—Heptonstall, on grass (Fl. Hx.).

1887. **Dasyscypha palearum** Mass. [*Peziza palearum* Desm.; *Lachnella*. Phil.; *Dasyscypha patens* Sacc.; etc.].

S.W.—Hainworth Wood, near Keighley (Lees' Fl. Add.). Heptonstall; and Hebden Bridge, on grass stems (Fl. Hx.).

1888. **Dasyscypha fuscescens** Sacc. [*Peziza*. Pers.; *Lachnella*. Phil. B. D. p. 235; *Lachnum*. Rehm. Krypt. Fl.; *P. brunneola* Desm.; *Lachnella brunneola* Phil. B.D. p. 238; etc.].

S.W.—Several places near Hebden Bridge, on dead oak-leaves.

N.W—Masham, on decaying raspberry-canes.

1889. **Dasyscypha calyculæformis** Rehm. Ascom. [*Peziza*. Schum.; *Lachnella*. Phil.; *Lachnum*. Rehm. Krypt. Fl.; etc.].

S.W.—Hebden Bridge, on fallen twig (Fl. Hx.).

1890. **Dasyscypha clandestina** Fckl. [*Peziza*. Bull.].

N.E.—Forge Valley, Scarboro', on dead stem of *Rubus idæus*.

1891. **Dasyscypha leucophæa** Mass. [*Peziza*. Nyl.].

N.E.—Scarboro', on dead stems of burdock.

Mid W.—Barden (Fl. Skipt.).

1892. **Dasyscypha sulfurea** Mass. [*Peziza*. Pers.].

N.E.—Bulmer; Scarbro' (Tr. iv.).

S.W.—Goitstock, on dead herbaceous stems.

1893. **Dasyscypha cerina** Fckl. [*Peziza*. Pers.].

N.E.—Scarbro' ('Nat.' Aug. '81).

1894. **Dasyscypha pygmæa** Sacc. [*Peziza*. Fr.].

S.W.—Goitstock.

N.W.—Masham, on dead wood among moss ('Nat.' Jan.'02).

1895. **Dasyscypha melaxantha** Mass. [*Peziza*. Fr.]

N.E.—Scarboro', on dead beech-branches. Mulgrave, 1900.

1896. **Dasyscypha pulverulenta** Sacc. [*Peziza pulverulenta* Lib.; *P. solfatera* Cke. & Ellis; *Lachnella solfatera* Phil.].

N.E.—Scarboro' on dead pine-leaves.

1897. **Dasyscypha puberula** Mass. [*Peziza*. Lasch; *Lachnella*. Phil.; *Pseudohelotium*. Sacc.].

S.W.—North Dean Wood; Elland Park Wood; Hebden Bridge; on decaying leaves of oak and sycamore (Fl. Hx.).

S.E.—Hessle, on dead oak-leaves (Hull S. & F.N.C.).

1898. **Dasyscypha citricolor** B. & Br. [*Peziza (Dasyscypha) citricolor* Ann. Nat. Hist.; *Lachnella.* Phil.].

N.E.—Langdale End, Scarboro,' on wet, decaying twigs, in deep shade (Exc. '97).

Mid W.—Harewood, on damp decaying twigs (F.F. '98).

There being no specimens of this species in Berkeley's herbarium at Kew, the Scarboro' specimens filled the vacancy and afforded an opportunity of drawing up a more complete diagnosis (New British Discomycetes Mass. and Crossl. 'Nat.' June 1901, pp. 186-187).

1899. **Dasyscypha œdema** Mass. [*Peziza.* Desm.].

N.E.—Scarboro', on *Phragmidium*, on leaves of bramble.

1900. **Dasyscypha Grevillei** Mass. [*Peziza.* Berk.; *Mollisia.* Phil.; *Trichopeziza.* Sacc].

S.W.—Crimsworth Dean, Hebden Bridge, on dead stem of some Umbellifer ('Nat.' June '94).

1901. **Dasyscypha prasina** Mass. [*Lachnea.* Quel.].

S.E.—Everingham, on dead grass (F.F. '93).

1902. **Dasyscypha spiræicola** Sacc. [*Lachnum.* Karst.].

Mid W.—Askham Bog, on *Spiræa Ulmaria* (Exc. 1900). First British Record.

1903. **Dasyscypha corticalis** Mass. [*Peziza.* Pers.] *Lachnella.* Fr.; *Helotium.* Karst.; *Lachnea.* Gillet].

N.E.—Scarboro', on dead poplar bark.

S.W.—Near Hebden Bridge, on dead bark (Fl. Hx.).

Mid W.—Grassington, on root, '03 (J. E. Sutcliffe).

1904. **Dasyscypha papillaris** Mass. [*Peziza.* Bull.). *Lachnella papillaris* Phil. B.D. p. 257; *L. variecolor* Phil. B.D. p. 259].

S.W.—Near Hebden Bridge, on decaying wood (Fl. Hx.).

N.W.—Swinton, Masham, on decaying wood.

1905. **Dasyscypha Carmichaeli** Mass. [*Peziza grisea* Carm. in Herb.; *Lachnea grisella* Cke. & Phil.].

Mid W.—East Keswick; Harwood, on decorticated logs laid in farm yard, and on field border (F.F. '98).

S.W.—Shibden, on dead wood (Fl. Hx.).

1906. **Dasyscypha Richonii** Mass. [*Urceolella Richonii* Boud.; *Trichopeziza Richonii* Sacc.].

N.E.—Mulgrave Woods, on rotting wood (F.F. 1900).

(New British Discomycetes Mass. and Crossl. 'Nat.' June 1901, p. 186).

1907. **Dasyscypha dematiicola** Mass. *Peziza*. B. & Br.; *Lachnella*. Phil.; *Trichopeziza*. Sacc.].

S.W.—Near Hebden Bridge, on dead wood (Fl. Hx.). Cullingworth, on decaying thorn-tree-stump. The *Lachnella escharodes* ('Nat.' June '94) most likely belongs here.

1908. **Dasyscypha scrupulosa** (Karst.) Mass. [*Peziza tomipera* Phil. in Herb.].

N.E.—Scarboro', on dead thorn ('Nat.' Aug. '81).

1909. **Dasyscypha Bullii** Mass. [*Peziza*. W.G.S.].

S.W.—Highlee Clough, Norland, on dead tree (Fl. Hx.).

1910. **Dasyscypha elaphines** Mass. [*Pezzia*. B. & Br.).

S.W.—Hebden Bridge, on decorticated oak-twig (Fl. Hx.).

1911. **Dasyscypha pteridis** Mass. [*Peziza*. A. & S.].

S.W.—Erringden, on *N. Filix-mas* (Fl. Hx.).

ERINELLA Quel. emend.

1912. **Erinella apala** Mass. [*Peziza apala* B. & Br.; *Lachnella apala* Phil.; *E. hapala* Sacc.].

N.E.—Scarboro'. Stokesley (Exc. '99). Egton Bridge '02.

Mid W.—Baildon Moor, common (Lees' Fl.).

S.E.—Low Wood, Boynton (W.W.S.).

S.W.—Askern ('Nat.' Oct. '93). Skirden Clough, and Brookhouse, Ovenden; Crimsworth Dean, and Hardcastle, near Hebden Bridge (Fl. Hx.). Cullingworth; Bingley (Fl. Skipt.).

N.W.—Rokeby (F.F. '04).

On wet, dead rushes; where it occurs it is found in plenty.

1913. **Erinella juncicola** Sacc. [*Dasyscypha*. Fckl.].

Mid W.—Harewood, on dead rushes (F.F. '98).

N.E.—Mulgrave Woods, on wet decaying rushes (F.F. 1900).

S.W.—Eller Carr, Cullingworth, on dead rush-stems.

1914. **Erinella Nylanderi** Rehm. [*Peziza sulphurea* Pers.; *Lachnum sulphureum* Karst.; *Trichopeziza sulphurea* Sacc.].

S.W.—Hebden Bridge: several places, on dead nettle-stems (Fl. Hx.). Hitherto confounded in this country with *Dasyscypha sulphurea* (Mass. Brit. Fung. Fl. iv. p. 304).

ECHINELLA Mass. gen. nov.

1915. **Echinella setulosa** Mass. and Crossl.

S.W.—Common on the moors and in the cloughs of the parish of Halifax, on dead ling-stems, *Calluna vulgaris*, under the bush while still attached to the parent plant (Fl. Hx.). Eller Carr, Cullingworth, on dead ling.

N.E.—Scarboro', on dead stems of *Calluna vulgaris*.

Has a great resemblance to *Mollisia cinerea* for which it has, no doubt, often been taken. Certain to be found in additional localities if looked for.

1916. **Echinella vectis** Mass. [*Peziza vectis* B. & Br.; *Pirottæa vectis* Phil. Brit. Disc. p. 284, pl. viii. fig. 52].

N.E.—Scarboro', on dead stems of *Centaurea nigra*.

1917. **Echinella Crosslandi** Mass.

N.E.—Scarboro', on decorticated wood.

S.W.—Hebden Bridge, on decorticated wood (Fl. Hx.).

"Superficially resembling *Dasyscypha corticalis*, but distinguished by the 3-septate spores" (Mass. Brit. Fung. Fl. iv. pp. 306-7).

TAPESIA.

1918. **Tapesia fusca** Fckl. [*Peziza fusca* Pers.].

S.W.—Frequent on dead wood, twigs, and occasionally ling, in the neighbourhoods of Halifax and Hebden Bridge (Fl. Hx.). Nab Wood, Saltaire, on dead twigs (Lees' Fl.). Goitstock, on dead poplar-sticks.

N.E.—Scarboro', on dead bark. Hackness (Exc. '97).

Mid W.—Harewood (F.F. '98).

N.W.—Rokeby; Brignall (F.F. '04).

In some instances the tapesium is almost or quite absent and then the ascophore requires to be carefully distinguished from *Mollisia cinerea* and allied species.

Var. **rosea** Mass.

N.E.—Scarboro' ('Nat.' Aug. '81). On dry stems of *Rosa sp.*

N.W.—Masham, on dead *Rosa* and *Rubus* ('Nat.' May '03).

S.E.—Brantingham, on dead stems of *Rosa* (Exc. '01).

"The present form is scarcely to be considered as a good variety. In the typical form the external cells of the cortex and margin are rounded or papillose, resembling undeveloped hairs; in the present variety these hairs are developed to a greater or less extent" (Mass. Brit. Fung. Fl. iv. pp. 298-9).

1919. **Tapesia aurata** Mass. [*Arachnopeziza.* Fckl.; *Belonidium.* Sacc.; *Peziza rhabdosperma* B. & Br.; *T. rhabdosperma.* Phil.].

N.E.—Scarboro', on dead wood.

1920. **Tapesia eriobasis** Phil. [*Peziza.* Berk.].

N.E.—Langton, near Scarboro', on bark.

1921. **Tapesia cæsia** Fckl. [*Peziza cæsia* Pers.].

N.W.—Masham, on dead oak-wood ('Nat.' Jan. '02). Rokeby, on dead oak wood in plantation near Greta Bridge (F.F. '04).

(Mass. Brit. Fung. Fl. iv. pp. 300-1, figs. 39-40, p. 156).

1922. **Tapesia sanguinea** Fckl. [*Peziza.* Pers.].

N.E.—Scarboro', on dead pine-wood.

CHLOROSPLENIUM Fr.

1923. **Chlorosplenium æruginosum** De N. [*Helvella.* Œd.; *Peziza.* Pers.; *Helotium.* Fr.].

Frequent, on fallen branches of oak, ash, hazel, etc., in moist woods. Records numerous for each county division.

"On fallen oak branches, staining the wood on which it grows, for a considerable depth, of a deep verdigris-green, the wood so stained being employed as 'green oak' in the manufacture of Tunbridge ware" (Phil. Brit. Disc. p. 147, pl. v. fig. 28). "Rehm. says that it also occurs on *Pinus abies* and *Alnus;* Saccardo adds birch" (Mass. Brit. Fung. Fl. iv. pp. 285-6, figs. 41-42, p. 156).

SCLEROTINIA Fckl.

1924. **Sclerotinia tuberosa** Fckl. [*Octospora.* Hedw.; *Peziza.* Bull.; *Phialea.* Gillet; *Hymenoscypha.* Phil.].

Mid W.—Bolton Woods (Lees' Fl.). Silsden (T. Hebden).

S.W.—Saltaire; Bingley (Tr. iv.). Shipley Glen (Lees' Fl.). Near Hebden Bridge (Fl. Hx.). Goitstock.

N.W.—Burn Valley, near Masham ('Nat.' May '03).

N.E.—Scarboro'. Helmsley; Rievaulx '03 (H. Slater).

Parasitic on the rhizomes of *Anemone nemorosa*. Very destructive to both wild and cultivated species of *Anemone* (Mass. Text-Book of Plant Diseases, p. 157).

1925. **Sclerotinia sclerotiorum** Mass. [*Peziza sclerotiorum* Lib.; *Phialea*. Gillet; *Hymenoscypha*. Phil.; *S. libertiana* Fckl.].

N.E.—Scarboro', on potato stems.

S.W.—Elland, on decayed butterbur (Fl. Hx.).

"Probably no other parasitic fungus attacks and kills so many plants of different species, and belonging to widely separated Orders. Among others may be enumerated potato, chrysanthemum, hemp, haricot beans, petunias, zinnias, cucumbers, turnips, etc. . . . ." (Mass. Text-Book of Plant Diseases, pp. 150-153, fig. 32).

1926. **Sclerotinia rapula** Rehm. [*Peziza rapulum* Bull. C.F. Tab. 485, fig. 3; *P. radicata* Holms.; *Aleuria*. Gillet; *Geopyxis*. Sacc.].

S.W.—Halifax. "On the ground in Gardens or Cornfields in places where the soil has been lately turned up for Cultivation. I have seen it here very rarely, and it has been sent me from Darlington" (Bolton, unpublished Tab. 210, Brit. Mus. Nat. Hist. coll.).

"This species was for many years included as British on the authority of Dickson, but a specimen now exists in the herbarium of the Rev. M. J. Berkeley, figured by Dr. Cooke in 'Mycogr.'" (Phil. Brit. Disc. pp. 50-51). Bolton corresponded with Dickson and possibly may have sent him the Halifax or Darlington specimens after having figured them.

Has since been found in Denmark; Germany; and America.

1927. **Sclerotinia Candolleana** Fckl. [*Peziza*. Lev.; *Phialea*. Quel.; *Hymenoscypha*. Phil.].

N.E.—Scarboro', on dead oak-leaves.

S.W.—Hardcastle, on decaying oak-leaves (Fl. Hx.).

1928. **Sclerotinia fructigena** Rehm. [*Monilia fructigena* Pers.].

N.E.—Scarboro'. A very destructive parasite on the fruit of apple, pear, apricot, plum, cherry, etc. The ascigerous form has recently been found abundantly on fallen peaches in the United States; it only occurs on fruit that has been lying on the ground for two seasons and partly buried.

1929. **Sclerotinia Curreyana** Karst. [*Peziza*. Berk.; *Phialea*. Gillet; *Hymenoscypha*. Phil.; *Sclerotium roseum* Fr.].

S.E.—Filey (*'Nat.' July '83).

N.E.—Scarboro', on culms of *Juncus lamprocarpus*.

Mid W.—Baildon; Hawksworth (Lees' Fl.).

S.W.—Shipley Glen (Lees' Fl.). Rishworth; Elland; and near Hebden Bridge (Fl. Hx.). Goitstock.

N.W.—Masham ('Nat.' May '03).

Not uncommon in spring on dead *Juncus sp.*: always arising from a sclerotium formed inside the stem of the plant.

1930. **Sclerotinia Duriæana** Quel. [*Peziza*. Tul.].

N.W.—Masham, on dead *Carex* ('Nat.' May '03).

CIBORIA Fckl.

1931. **Ciboria ochroleuca** Mass. [*Peziza ochroleuca* Bolton; *P. firma* Pers.; *Ciboria firma* Fckl.; *Hymenoscypha*. Phil.; etc.].

S.W.—Halifax, 1789 "On putrid wood in wet places" (Bolton, Tab. 105 fig. 1.). Nab Wood, Saltaire, on dead twigs (Lees' Fl.). Elland; and near Hebden Bridge, on wet, dead oak-twigs (Fl. Hx.).

N.E.—Olivers' Mount, Scarboro' (Tr. iv.). On dead oak-branches.

S.E.—Blackwood (F.F. '84). Osgodby, on oak (W.N.C.).

Mid W.—Stainer Wood, Selby (F.F. '96).

N.W.—Masham ('Nat.' May '03). Thorsgill (F.F. '04).

"Bolton's name—quoted by Persoon—is restored, as there is no mistaking his excellent figure and description" (Mass. Brit. Fung. Fl. iv. p. 275).

1932. **Ciboria luteovirescens** Sacc. [*Peziza*. Rob.; *Phialea*. Gillet; *Hymenoscypha*. Phil.; *Helotium*. Karst.; etc.].

S.W.—Goitstock, on dead leaf-stalks of sycamore. Kiveton Park, on dead wood (T. Gibbs).

N.W.—Thorsgill, on dead leaf-stalks (F.F. '04).

1933. **Ciboria echinophila** Sacc. [*Peziza*. Bull.].

N.E.—Scarboro', on involucres of sweet chestnut.

1934. **Ciboria amentacea** Fckl. [*Peziza*. Balb.].

S.W.—Luddenden Dean; Hardcastle; and other places near Hebden Bridge, on fallen male-catkins of willow and alder (Fl. Hx.).

N.W—Masham, on dead alder-catkins ('Nat.' May '03).

1935. **Ciboria pseudotuberosa** Sacc. [*Sclerotinia*. Rehm.; *Hymenoscypha*. Phil.].

N.E.—Raincliff Wood, Scarboro', on decayed acorns.

CYATHICULA De Not.

1936. **Cyathicula coronata** De N. [*Peziza inflexa* Bolton; *P. coronata* Bull.; *Helotium*. Karst.; *Hymenoscypha*. Phil.].

S.W.—Halifax, 1789. "On putrid vegetable substances, in damp places, in woods, and about rivulets" (Bolton, Tab. 106, fig. 2). Hebden Bridge, on dead stems of nettle (Fl. Hx.). Stainboro' (F.F. '97). Melton; and Warmsworth (F.F. '01).

N.E.—Scarboro' ('Nat.' Aug. '81). On dead nettle-stems. Mulgrave Woods (F.F. 1900). Egton Bridge (F.F. '02).

Mid W.—Micklefield (F.F. '81). Meanwood (Tr. ix.). Apperley; Calverley; etc., on dead thistle and nettle-stems. (Lees' Fl.). Bolton Woods (Fl. Skipt.).

N.W.—Masham ('Nat.' Jan. '02). Rokeby (F.F. '04).

1937. **Cyathicula petiolorum** Sacc. [*Peziza*. Rob.].

N.E.—Scarboro', on dead oak-leaf-petioles.

HELOTIUM Fr. emend.

1938. **Helotium claro-flavum** Berk. [*Peziza*. Grev.].

N.E.—Scarboro', on rotting alder branches. Helmsley '03.

Mid W.—Bolton Woods, on dead holly (Lees' Fl.). Harewood (F.F. '98).

S.W.—Elland Park Wood, on dead wood (Fl. Hx.).

N.W.—Masham, on dead branch ('Nat.' Jan. '02).

S.E.—Hornsea, on dead wood (Hull S. & F.N.C.).

1939. **Helotium badium** Phil.

S.W.—Hebden Bridge, on dead, wet twigs (Fl. Hx.).

1940. **Helotium imberbe** Fr. [*Peziza*. Bull.].

N.E.—Scarboro', on dead alder wood.

S.W.—Rockley Dam, on dead willow (F.F. '97).

N.W.—Burn Valley, near Masham, on alder ('Nat.' May'03).

1941. **Helotium laburni** B. & Br. [*Hymenoscypha*. Phil.].

N.E.—Scarboro', on laburnum branches, bursting through the bark.

1942. **Helotium ferrugineum** Berk. [*Peziza*. Schum.].

S.W.—Skircoat, Hx.; and near Hebden Bridge, on dead oak-twigs, thorn wood, alder roots, etc. (Fl. Hx.). Melton; Sprotborough (F.F. '01). Conisborough, on twigs in the castle moat ('Nat.' Ap. '02).

N.W.—Masham, on dead twigs ('Nat.' Jan. '02).

N.E.—Helmsley, on decaying branches (F.F. '03).

1943. **Helotium lenticulare** Fr. [*Peziza*. Bull.].

N.E.—Scarboro', on rotten branches ('Nat.' Aug. '81). Helmsley, on rotten trunk (F.F. '03).

Mid W.—Bolton Woods, on stumps (Lees' Fl.).

N.W.—Masham, on decaying stump ('Nat.' Jan. '02).

S.W.—North Dean Wood; and several places near Hebden Bridge; on dead twigs and wood (Fl. Hx.).

1944. **Helotium ochraceum** Berk. [*Peziza*. Grev.].

N.E.—Scarboro', on bark.

1945. **Helotium terrigenum** Cke. & Phil.

S.W.—Pecket Wood, Hebden Bridge, on the ground (Fl. Hx.).

N.E.—Egton Bridge, on bare ground (F.F. '02).

1946. **Helotium citrinum** Fr. [*Octospora*. Hedw.].

S.W.—Nab Wood, Saltaire, on dead stump; Frizinghall, on dead cabbage-stalks (Lees' Fl.).

N.E.—Bulmer; Scarboro', on stumps. Mulgrave Woods (F.F. 1900). Egton Bridge, on dead twigs and branches (F.F. '02). Helmsley; Rievaulx, on dead branches (F.F. '03).

S.E.—Swan Island, Hornsea Mere '03 (A. R. Warnes).

N.W.—Masham '03. Rokeby (F.F. '04).

Var. **pallescens** Mass. [*Helotium pallescens* Fr.].

N.E.—Scarboro' ('Nat.' Aug. '81). Mulgrave (F.F. 1900).

S.W.—Frequent in the Halifax and Hebden Bridge districts on damp, decaying stumps, trunks, branches and twigs of various trees; also on living sycamore root-branch in water-run (Fl. Hx.). Owston (F.F. '99). Potridings Wood (F.F. '01).

Mid W.—East Keswick (F.F. '98).

N.W.—Masham, on dead wood ('Nat.' Jan. '02). Rokeby.

1947. **Helotium Fuckelii** Mass. [*Pezizella sordida* Fckl.; *Hymenoscypha sordida* Phil.; *Helotium sordidum* Rehm.].

S.W.—Hardcastle ('Nat.' June '94).

1948. **Helotium luteolum** Currey [*Lachnella luteola* Phil.; *Dasyscypha luteola* Sacc.].

Mid W.—Askham Bog, on dead wood (Exc. 1900).

1949. **Helotium aureum** Pers.

S.W.—Rishworth, on twigs, rill-side (Fl. Hx.). Eller Carr Cullingworth, on tan refuse. Wooldale, Thongsbridge, on dead wood (C. H. Broadhead).

N.W.—Masham, on dead twigs ('Nat.' May '03).

1950. **Helotium serotinum** Fr. [*Peziza serotina* Pers.; *Helvella aurea* Bolton; *Hymenoscypha serotina* Phil.].

S.W.—Halifax 1789. "Grows on sticks, stalks of plants, etc., in moist and watery places in woods" (Bolton, Tab. 98?). Binnroyd Clough, Norland, on dead leaf-stalks (Fl. Hx.).

N.E.—Scarboro' ('Nat.' Aug. '81.)

Mid W.—Church Fenton (Lees' Fl.).

1951. **Helotium flavum** Phil. [*Peziza*. Klotzsch.].

N.E.—Scarboro', on dead wood. Mulgrave Woods, on thorn twigs (F.F. 1900); and on decorticated wood (F.F. '02).

N.W.—Masham, on dead branch ('Nat.' Jan. '02).

1952. **Helotium melleum** B. & Br.

S.W.—Near Hebden Bridge ('Nat.' June '94). Luddenden Dean (Fl. Hx.). On rotten wood and branches, also on the ground.

1953. **Helotium lutescens** Fr. [*Octospora.* Hedw.].

N.E.—Scarboro' (Tr. iv.).

S.W.—Saltaire, on dead twigs (Lees' Fl.). Burghwallis; Campsall; on decorticated wood (F.F. '99). Melton, on dead branches (F.F. '01). Conisborough castle moat (Nat.' Ap. '02). Hebden Bridge (Fl. Hx.).

N.W.—Masham, on decaying moss-covered branch ('Nat.' Jan. '02); also on old sacking laid in hedge-bottom '03.

1954. **Helotium uliginosum** Fr.

S.W.—Halifax; Hebden Bridge; Erringden; Norland; Elland; on dead wood, twigs, etc., in swamps (Fl. Hx.). Royston near Barnsley, on twig in swamp (F.F. '97).

Mid W.—Harewood (F.F. '98).

N.E.—Egton Bridge, on dead twig in swamp (F.F. '02).

N.W.—Masham.

1955. **Helotium salicellum** Fr.

S.W.—Melton Wood, on dead branch (F.F. '01).

N.W.—Masham, on dead willow-branches ('Nat.' Jan. '02).

1956. **Helotium virgultorum** Karst. [*Peziza.* Vahl.; *Hymenoscypha.* Phil.; *Phialea.* Sacc.].

Mid W.—Studley Royal (F.F. '81).

S.W.—Elland, on decaying holly-wood; near Hebden Bridge, on dead wood (Fl. Hx.). Potridings; Sprotborough (F.F. '01).

N.W.—Masham, on dead twigs ('Nat.' Jan.'02). Rokeby '04.

Var. **fructigenum** Rehm. [*Peziza.* Bull.].

N.E.—Scarboro', 'Nat.' Aug. '81). On beech mast.

S.W.—Owston (F.F. '99). Maltby Wood (T. Gibbs).

1957. **Helotium aciculare** Pers. Syn. Fung. [*Helvella agaricíforme* Bolton; *Helvella acicularis* Bull.; *Leotia acicularis* Pers. Obs. myc.].

S.W.—Halifax, 1789. "Grows about the roots of trees, under the hypnums and other mosses, in the moist and shady parts of woods" (Bolton, Tab. 98, fig. 1). Bingley; Birstal ('Nat.' Aug. '81). Haigh (*'Nat.' Oct. '82). Odsal Wood, Wibsey; Nab Wood, Saltaire (Lees' Fl.). Hugsett (F.F. '97). Numerous places in the Halifax and Hebden Bridge districts, always under similar conditions to those given above by Bolton (Fl. Hx.).

N.E.—Scarboro' (Tr. iv.). Bulmer. Mulgrave Woods (F.F. 1900). Limber Wood, near Egton Bridge (F.F. '02). On mossy stumps.

Mid W.—Horsforth (Tr. ix.). Bolton Woods (Lees' Fl.)

S.E.—Escrick (F.F. '96). On decaying stumps.

1958. **Helotium concolor** Mass. [*Hymenoscypha.* Phil.].

S.W.—Wyming Brook, near Sheffield, on wood.

1959. **Helotium calyculus** Berk. [*Peziza.* Sow.; *Hymenoscypha.* Phil.; *Phialea.* Sacc.].

Mid W.—Church Fenton (Lees' Fl.). On dead branches.

1960. **Helotium sublenticulare** Fr.

S.W.—Royston (F.F. '97). Nr. Hebden Bridge (Fl. Hx.). Wyming Brook; Ecclesall Wood, near Sheffield.

1961. **Helotium moniliferum** Mass. [*Bispora.* Fckl.; *Hymenoscypha.* Phil.; *Bisporella.* Sacc.].

S.W.—Fixby Park (Fl. Hx.), on sawn surface of beech stump, along with the black mould—*Bispora monilioides* with which it is always associated, and which is considered to be its conidial stage. See Mass. Brit. Fung. Fl. iv., pp. 249-250; figs. 36-39, p. 290.

N.E.—Arncliffe Woods, on surface of stump (F.F. '02). Rievaulx; Helmsley (F.F. '03).

N.W.—Rokeby (F.F. '04).

1962. **Helotium emergens** Mass. Brit. Fung. Fl. iv. p. 251, figs. 26-29, p. 156. [*Hymenoscypha.* Cke. & Phil.; *Phialea.* Sacc.].

S.W.—Eller Carr, Cullingworth, on decaying larch-bark.

1963. **Helotium cyathoideum** Karst. [*Peziza cyathoidea* Bull.; *Hymenoscypha cyathoidea* Phil. Brit. Dis., also vars. *solani* and *epilobii*; *H. urticæ* Phil; *H. clavata* Phil.; *H. cacaliæ* Phil.].

Very common on dead herbaceous stems in damp places. Records most numerous for each county division.

1964. **Helotium sublateritium** B. & Br.

N.E.—Scarboro', on dead hop-stems.

1965. **Helotium scutula** Karst. [*Peziza*. Pers.; *Phialea*. Gillet; *Hymenoscypha*. Phil.; etc.].

Common in all moist woods on various kinds of decaying herbaceous stems. Records for each county division (excepting S.E. nil.) too numerous to detail.

1966. **Helotium herbarum** Fr. [*Peziza*. Pers.].

Mid W.—Bolton Woods ('Nat.' Aug. '81.) Apperley, on *Stachys sylvatica* (Lees' Fl.). Harewood; East Keswick (F.F. '98).

N.E.—Scarboro' (Tr. iv.); on dead nettle-stems. Arncliffe Woods, on dead nettle and other herbaceous stems (F.F. '02).

S.W.—Rockley, near Barnsley (F.F. '97). Bingley (Fl. Skipt.). Lightcliffe; Norland; and many places near Hebden Bridge, on decaying stems of nettle, butterbur, etc. (Fl. Hx.).

N.W.—Masham ('Nat.' Jan. '02). Rokeby (F.F. '04).

1967. **Helotium repandum** Phil.

S.W.—Hebden Bridge, on old stems of meadow sweet, *Rumex*, *Epilobium*, and on sack backing of cast-out hearth-rug; Rishworth, on dead stems of *Anthriscus* (Fl. Hx.).

1968. **Helotium epiphyllum** Fr. [*Peziza*. Pers.].

S.W.—Frequent on the petioles of oak, beech, and sycamore leaves in damp portions of the woods in the Calder, and tributary valleys between Halifax and Hebden Bridge (Fl. Hx.). Campsall (F.F. '99). Kiveton Park (T. Gibbs).

N.E.—Scarboro', on dead oak-leaves. Arncliffe (F.F. '02).

N.W.—Masham, on the veins of rotten leaves of *Ulmus*

montana ('Nat.' Jan. '02). Thorsgill; Rokeby; on oak and beech leaves (F.F. '04).

1969. **Helotium phyllophilum** Karst. [*Peziza*. Desm.].

N.E.—Scarboro', on dead beech-leaves.

N.W.—Masham ('Nat.' Jan. '02).

1970. **Helotium renisporum** Ellis [*Hymenoscypha renispora* Phil.; *Ciboria renispora* Sacc.; *C. Sydowiana* Rehm.].

N.E.—Scarboro'. Helmsley (F.F. '03).

S.W.—Goitstock. Potridings Wood (F.F. '01).

N.W.—Masham ('Nat.' Jan. '02). Rokeby (F.F. '04).

On petioles and primary veins of rotting oak-leaves.

1971. **Helotium punctiforme** Phil. [*Peziza*. Grev.; *Pseudohelotium*. Sacc.; *Pezizella*. Rehm.].

N.E.—Scarboro', on dead oak-leaves. Mulgrave (F.F. 1900).

1972. **Helotium tumidulum** Mass. [*Peziza tumidula* Rob. & Desm.; *Pezizella tumidula* Sacc.].

S.W.—Conisborough castle moat, on underside of decaying oak-leaves ('Nat.' Nov. '01, p. 342. First British record). Kiveton Park (T. Gibbs).

1973. **Helotium immutabile** Fckl.

N.E.—Scarboro', on dead oak-leaves.

1974. **Helotium albidum** Pat. [*Peziza albida* Rob.; *Phialea*. Gillet; *Hymenoscypha*. Phil.].

S.W.—Goitstock, on petioles of fallen oak-leaves.

Var. **æsculi** Phil.

S.W.—Luddenden Dean, on petioles of horse-chestnut (Fl. Hx.).

1975. **Helotium fagineum** Fr. [*Peziza*. Pers.].

N.E—Bulmer; Scarboro', on beech mast. Mulgrave Woods (F.F. 1900). Arncliffe Woods, on rotting hazel-nuts (F.F. '02). Rievaulx, on beech mast (F.F. '03).

S.W.—Owston; Burghwallis (F.F. '99). Warmsworth (F.F. '01).

N.W.—Masham, on beech mast, and rotting hazel-nut shells, inside and out ('Nat.' Jan. '02). Brignall; Rokeby (F.F. '04).

1976. **Helotium alniellum** Karst. [*Peziza alniella* Nyl.; *Phialea alniella* Sacc.].

S.W.—Nr. Hebden Bridge (Fl. Hx.). Goitstock.

N.E.—Scarboro'. It is beautifully downy with short hyphæ externally. This is not noticed in my description (Fung. Fl. iv. p. 262), which was drawn up from dried specimens (G.M.).

N.W.—Masham.

On decaying female catkins of *Alnus glutinosa*.

1977. **Helotium gramineum** Phil.

S.W.—Stump Cross, Hipperholme, on decaying *Festuca ovina;* Elland; and Hebden Bridge, on dead grass (Fl. Hx.).

Mid W.—Harewood; East Keswick (F.F. '98).

N.W.—Masham, on decaying grass-stems ('Nat.' May '03).

1978. **Helotium nitidulum** Mass. [*Peziza.* B. & Br.].

S.W.—Nr. Hebden Bridge, on leaves and stems of *Aira cæspitosa* ('Nat.' June '94).

1979. **Helotium eburneum** Gillet. [*Peziza.* Rob.].

S.W.—Nr. Hebden Bridge, on grass (Fl. Hx.).

1980. **Helotium conigenum** Fr. [*Peziza.* Pers.].

N.E.—Scarboro' ('Nat.' Aug. '81). Mulgrave Woods (F.F. 1900). Egton Bridge. On fallen cones of Scots fir.

S.W.—Nr. Hebden Bridge, on decaying cones (Fl. Hx.).

1981. **Helotium marchantiæ** Fr. [*Peziza.* Berk.].

Mid W.—Bolton Woods, on decaying *Marchantia polymorpha* (Fl. Skipt.).

1982. **Helotium lacteum** Mass. [*Ascobolus* (*Ascophanus*) *lacteus* Cke. & Phil. Grev. v. p. 119.; *Ascophanus lacteus* Phil. Brit. Disc. p. 306].

S.W.—Copley, on horse dung (Fl. Hx.).

1983. **Helotium fibuliforme** Berk., Outl. p. 371. [*Helvella fibuliformis* Bolton, Tab. 176].

"On small branch of elm root, near the spring at Bell-Bank, near Bingley 1790" (Bolton, p. 176.).

[**Helotium tuba** Fr.; *Peziza tuba* Bolton, Tab. 106, fig. 1.

S.W.—Halifax, 1789. "This beautiful little Peziza adheres

by a claw at the base to the putrid stems of decayed plants, in moist places near rills of water. It is shaped like a trumpet in miniature. The height about half an inch. The colour a bright pale yellow" (Bolton, p. 106).

The above being all that is known of Bolton's *Peziza tuba*, it is improbable it will again be recognised with certainty among the many British yellow Helotii at present described].

STAMNARIA Fckl.

1984. **Stamnaria equiseti** Sacc. [*Lycoperdon equiseti* Hoffm.; *Peziza Persoonii* Moug.; *Stamnaria Persoonii* Fckl.].

N.E.—Raincliff Wood, Scarboro', on dead stems of *Equisetum maximum*.

S.W.—Steeton, on dead *Equisetum* (Fl. Skipt.).

"Distinguished by the horny, perfectly glabrous ascophore with a somewhat narrowed, delicately bordered mouth" (Mass. Brit. Fung. Fl. iv. p. 231, figs. 15-17, p. 156).

POCILLUM De Not.

1985. **Pocillum Needhami** Mass. & Crossl.

S.W.—Elland Park Wood, on dead oak-leaves (Mass. Brit. Fung. Fl. iv. p. 498: the locality is given as Hebden Bridge, in mistake).

GORGONICEPS Karst.

1986. **Gorgoniceps Guernisaci** Sacc. [*Vibrissia Guernisaci* Crouan].

S.W.—Not uncommon in the Halifax; Hebden Bridge; and intervening districts on decorticated wood, branches, and twigs of various kinds lying in rills, etc. (Fl. Hx.). Cullingworth.

N.E.—Scarboro', on dead willow-branches, in a pond.

N.W.—Masham, on dead sticks in water ('Nat.', May '03).

BELONIUM Sacc.

1987. **Belonium pilosum** Crossl.

S.W.—Elland Park Wood, near Halifax, on dead stems and leaves of *Carex pendula* (New and Critical British Fungi. Crossl. 'Nat.' Jan. 1900, pp. 6 & 10, figs. 7-14). In 'Nat.' June 1901, p. 181, the figures are quoted 4-14, in error.

BELONIDIUM Mont. & Dur. emend.

1988. **Belonidium ventosum** Phil. [*Peziza*. Karst.].

N.E.—Scarboro', on rotten wood.

S.W.—North Dean Wood; Rishworth; and near Hebden Bridge, on fallen willow twigs and on dead wood (Fl. Hx.). Wyming Brook, near Sheffield.

1989. **Belonidium deparculum** Mass. [*Peziza deparcula* Karst.; *Pseudohelotium*. Sacc.; *Pezizella*. Rabh. Krypt. Fl. Disc.].

S.E.—Hornsea Mere side, on *Spiræa Ulmaria* (Exc. 1900). Filey, similar habitat ('Nat.' Jy. '03).

1990. **Belonidium Clarkei** Mass. & Crossl.

N.E.—Mulgrave Woods, on damp, rotting wood (F.F. 1900). (New British Discomycetes Mass. & Crossl. 'Nat.' June 1901, pp. 181 and 184, figs. 1-6). Helmsley (F.F. '03). On damp wood.

S.W.—Wyming Brook, near Sheffield, on wet dead wood.

N.W.—Rokeby; Brignall, on rotting wood (F.F. '04).

1991. **Belonidium cyanites** Mass. [*Mollisia*. C. & P.].

S.W.—Nr. Hebden Bridge, on dead stems of *Epilobium hirsutum* ('Nat.' June '94).

1992. **Belonidium pruinosum** Mass. [*Helotium pruinosum* Jerd.; *Polydesmia pruinosa* Boud.

N.E.—Scarboro' ('Nat.' Aug. '81). Bulmer, on *Diatrype stigma*. Mulgrave (F.F. 1900). Egton Bridge (F.F. '02). Helmsley '03 (H. Slater).

S.W.—Shelf; Elland; and several places near Hebden Bridge, frequent on bark of fallen branches, also on the effused stroma of *Eutypa sp.* and other Pyrenomycetes (Fl. Hx.). Potridings Wood, on *Eutypa*. Kiveton Park, on dead wood (T. Gibbs).

S.W.—Hessle, on dead wood (Hull S. & F.N.C.). South Cave (A. R. Warnes).

N.W.—Masham, on *Eutypa* ('Nat.' Jan. '02); and on scorched furze-bushes thrown on heap Oct. '03. Rokeby, on *Eutypa* (F.F. '04).

1993. **Belonidium filisporum** (Cke.) Phil.

S.W.—Wyming Brook near Sheffield, on *Juncus*.

1994. **Belonidium lacustre** Phil. [*Peziza*. Fr. Syst. Myc.; *Niptera*. Fr. Summ. veg. Scand.; *Mollisia*. Gillet].

N.E.—Scarboro', on culms of *Glyceria aquatica*.

S.W.—Elland, on sheaths of *G. aquatica;* Hebden Bridge, on dead grass at the by-wash of a dam (Fl. Hx.).

1995. **Belonidium vexatum** De N. [*Belonidium culmicolum* Phil. Brit. Disc. p. 148, pl. v. fig. 29].

Mid W.—East Keswick, on dead grass (F.F. '98).

1996. **Belonidium pullum** Phil. & Keith.

S.W.—Hardcastle, Hebden Bridge, on decaying grass (Fl. Hx.). Sutton, near Askern, on decaying *Phragmites communis*.

On sheaths and leaves of *Poa*, *Typha*, and *Phragmites* (Mass. Brit. Fung. Fl. iv. p. 228, figs. 30-33, p. 156).

1997. **Belonidium Jerdoni** Mass. [*Mollisia*. Phil.].

N.E.—Scarboro', on Scots-fir leaves.

MOLLISIA Fr. emend.

1998. **Mollisia melaleuca** Sacc. [*Peziza*. Fr.].

S.W.—Elland; Stansfield; Skircoat; on dead wood (Fl. Hx.). On chips and branches, Potridings Wood (F.F. '01).

N.W.—Masham, on decaying wood ('Nat.' Jan. '02).

1999. **Mollisia cinerea** Karst. [*Peziza*. Batsch.].

Very common on dead wood, as trunks, stumps, upturned roots, fallen branches, twigs, etc., of any kind; to be found in all shaded, moist places where these occur. Records for each county division exceedingly numerous.

2000. **Mollisia aquosa** (B. & Br.). Phil.

N.E.—Scarboro', on *Lasiosphæria hirsuta* on branches of goat-willow—*Salix Caprea*.

S.W.—Hebden Bridge, on dead branches of *Salix*. (Fl. Hx.).

2001. **Mollisia lignicola** Phil.

N.E.—Scarboro', on hard wood.

S.W.—Lightcliffe ('Nat.' June '94). Elland; Hipperholme; Norland; Hebden Bridge; etc. (Fl. Hx.). Sutton near Askern (F.F. '99).

Mid W.—Bolton Woods (Fl. Skipt.).

S.E.—Cottingham; Spring Head, Hull (A. R. Warnes).

N.W.—Rokeby (F.F. '04).

Frequent on decorticated trunks, chips, etc.

2002. **Mollisia fusca** Mass. [*Lachnella Schumacheri* Phil.; *Trichopeziza fusca* Sacc.].

S.W.—Nr. Hebden Bridge; Southrowram; on dead wood (Fl. Hx.). Erringden—par. of Hx.—on old root, side of stream, Aug. '04.

N.W.—Masham, on rotten wood.

N.E.—Mulgrave Woods, on dead wood.

2003. **Mollisia livido-fusca** Gillet. [*Peziza*. Fr.].

S.W.—Nr. Hebden Bridge, on decorticated wood. For diagnosis of these—the first British specimens, see (New Fungi by the Myc. Members of the Union, 'Nat.' Jan. '04, pp. 5-6).

2004. **Mollisia dentata** Gillet.

S.W.—Cullingworth, on rotten poplar-root.

2005. **Mollisia cinerascens** Rehm, Rabh. Krypt. Fl. Disc.

S.E.—Brantingham, near Brough ('*Nat.' Aug. '01; Transaction of the Hull Scientific & Field Naturalist Club, 1901, p. 224, figs. 1-4). First British records.

On decayed stem of some Umbellifer.

2006. **Mollisia atrocinerea** (Cke.) Phil.

Common on dead herbaceous stems of various kinds. Records numerous for each county division, with the exception of S.E. nil.

2007. **Mollisia atrata** Karst. [*Peziza atrata* Pers.; forms *asparagi*, *oenanthes*, and *ulmariæ* Phil. B.D. p. 182].

N.E.—Scarboro' ('Nat.' Aug. '81). Bulmer, on ragwort stems. Stokesley (Exc. '99).

Mid W.—Askham Bog, on *Spiræa*. (Exc. 1900). Bolton Woods (Fl. Skipt.).

N.W.—Masham ('Nat.' Jan. '02).

S.E.—Houghton (Exc. 97). Hornsea, on dead stems of *Epilobium* and *Spiræa*. Filey, on *Spiræa* (*'Nat.' Jy. '03).

S.W.—Common on herbaceous stems of various kinds in the Halifax; Hebden Bridge; and intervening districts (Fl. Hx.). Hugsett (F.F. '97). Ecclesall Wood; Redmires; Wyming Brook; Whirlow; etc., near Sheffield, on various dead herbaceous stems.

2008. **Mollisia mercurialis** (Fckl.) Sacc.

S.W.—Elland; and near Hebden Bridge; on dead stems of *Mercurialis perennis* (Fl. Hx.).

N.W.—Masham ('Nat.' May '03).

2009. **Mollisia urticicola** Phil.

S.W.—Rishworth (Fl. Hx.). Storthes Hall, Huddersfield (F.F. '95). Askern (H.T.S.). On dead nettle-stems.

Mid W.—Askham Bog, on dead nettle-stems.

2010. **Mollisia effugiens** Phil. [*Peziza*. Rob.].

S.W.—Nr. Hebden Bridge: several places, on dead herbaceous stems ('Nat.' June '94; Fl. Hx.). Royston (F.F. '97).

2011. **Mollisia carduorum** Mass. [*Niptera*. Wint.].

S.W.—Copley, and Salterhebble, near Halifax, on dead stems of *Cnicus lanceolatus* (Fl. Hx.).

2012. **Mollisia dilutella** Phil.

S.W.—Salterhebble, on dead stems of *Epilobium* (Fl. Hx.).

S.E.—Filey, on dead stems of *Epilobium hirsutum* (*'Nat.' Jy. '03).

2013. **Mollisia nervicola** Gillet [*Peziza*. Desm.].

S.W.—Nr. Hebden Bridge, on the veins of decaying leaves of oak and sycamore. For diagnosis of these—the first British specimens, see (New British Discomycetes, Mass. & Crossl. 'Nat.' June '01, p. 180).

2014. **Mollisia betulicola** Rehm, Rabh. Krypt. Fl.; *Pyrenopeziza betulicola* Fckl.

S.W.—Hebden Bridge, on wet, decaying birch-leaves (New and Critical British Fungi Crossl. 'Nat.' Jan. 1900, pp. 7-8; and New British Discomycetes, Mass. & Crossl. 'Nat.' June '01, pp. 180-1).

2015. **Mollisia plantaginis** Fckl.

S.W.—Elland, on dead flowering stems of *Plantago major* ('Nat.' June '94; Fl. Hx.).

2016. **Mollisia amenticola** Rehm.

N.W.—Masham, on decaying female catkins of *Alnus glutinosa* ('Nat.' Jan. '02. First British record).

2017. **Mollisia juncina** Rehm [*Peziza.* Pers.].

S.W.—Elland; nr. Hebden Bridge; Soil Hill, Ovenden; Salterhebble; etc., on dead culms of *Juncus* and *Carex sp.* (Fl. Hx.). Eller Carr, Cullingworth, on *Carex.*

N.E.—Scarboro', on *Juncus* ('Nat.' June '04).

2018. **Mollisia mutabilis** Mass. [*Peziza.* B. & Br.].

S.W.—Shipley Glen, on *Aira cæspitosa* (Lees' Fl.).

2019. **Mollisia chionea** Mass. & Crossl.

S.W.—Elland Park Wood nr. Hx., on decaying stems of *Carex pendula.* (New or Critical Fungi Massee Jour. Bot. April 1896, p. 154, pl. 357, figs. 21-24).

2020.—**Mollisia arundinacea** (DC.) Phil.

S.W.—Askern, on dead stems of *Arundo phragmites* (H.T.S.).

2021.—**Mollisia stramineum** Phil. [*Peziza.* B. & Br.; *Pseudohelotium.* Sacc.].

S.W.—Soil Hill, Ovenden; Salterhebble; Elland; and several places near Hebden Bridge, on decaying grass (Fl. Hx.).

2022.—**Mollisia dactyligluma** Cke.

S.W.—Elland; and near Hebden Bridge, on decaying glumes of *Dactylis glomerata* (Fl. Hx.).

2023. **Mollisia pineti** Phil. [*Peziza.* Batch].

S.W.—Hardcastle, on pine needles (Fl. Hx.).

2024. **Mollisia fallax** Gillet [*Peziza.* Desm.].

S.W.—Several places near Hebden Bridge, on cones of pine and larch; also on fallen pine-branches, and needles ('Nat.' June '94; Fl. Hx.). Campsall (F.F., '99).

N.E.—Scarboro', on cones of Scots fir.

2025.—**Mollisia pteridina** Karst.

S.W.—Nr. Hebden Bridge, on decaying ferns—*N. Filix-fœmina.* For diagnosis from these—the first British specimens,

see (New British Fungi, Sopp. & Crossl., 'Nat.' Jan. '99, pp. 28-29, figs. 18-21, p. 31).

2026. **Mollisia versicolor** Phil. [*Peziza*. Desm.].

S.W.—Nr. Hebden Bridge, on decaying *Pteris aquilina*—bracken (Fl. Hx.). Erringden, par. of Hx., on dead stems of *L. Filix-mas* '04.

2027. **Mollisia hypnorum** Fr.

S.W.—Rishworth, on damp wall among a coating of living mosses and hepatics (First British record, Hx. 'Nat.' vi. p. 124; Fl. Hx.).

A hitherto little-known species, but agrees exactly with a specimen from Fries in Herb. Kew.

PSEUDOPEZIZA Fckl. emend.

2028. **Pseudopeziza trifolii** Fckl. [*Ascobolus*. Bernh.; *Trochila*. De N.; *Peziza*. Lib.; *Phacidium*. Boud.; *Mollisia*. Phil.].

S.W.—North Dean Wood; and near Hebden Bridge, on living leaves of both the red and white clovers ('Nat.' June '94, where the wrong author is quoted). Campsall, near Askern, where a whole field of red clover was smothered with it (F.F. '99).

N.E.—Scarboro', on *Trifolium repens*. Stokesley (Exc. '99). Lythe, near Whitby (F.F. 1900).

Sometimes this parasite is very destructive. "The disease when present usually assumes the character of an epidemic, due to the rapid and abundant diffusion of the spores, and consequently considerably reduces the forage by preventing growth owing to the destruction of the leaves . . . . ." (Mass. Text-Book of Plant Diseases, pp. 144-5, fig. 29).

2029. **Pseudopeziza ranunculi** Sacc. [*Dothidea*. Fr.; *Plyctidium*. Wallr.; *Phacidium*. Lib.; *Fabraea*. Karst.; etc.].

N.E.—Scarboro' ('Nat.' Aug. '81). On fading leaves of *Ranunculus repens*, and other species.

2030. **Pseudopeziza repanda** Karst. [*Xyloma*. A. & S.; *Phacidium*. Fr.; *Phacidium vernale* and *P. autumnale* Fckl.].

Mid W.—Bolton Abbey, on cotyledons of *Galium Aparine* (H.T.S.). Halton East (Fl. Skipt.).

2031. **Pseudopeziza petiolaris** Mass. [*Hysterium.* A. & S.; *Trochila.* Rehm.; *Peziza erumpens* Grev.; *Mollisia.* Phil.; etc.].

S.W.—Bingley (Lees' Fl.). On sycamore petioles.

Mid W.—Bolton Woods (Fl. Skipt.).

2032. **Pseudopeziza graminis** Mass. [*Peziza.* Desm.].

S.W.—Nr. Hebden Bridge, on dead grass (Fl. Hx.).

2033. **Pseudopeziza rubi** Mass. [*Excipula.* Fr.].

S.W.—Dudwell, Hx., on dead blackberry-stems (Fl. Hx.).

2034. **Pseudopeziza palustris** Mass. [*Peziza.* Rob.].

S.W.—Hebden Bridge; Rishworth, etc., on *Juncus*(Fl. Hx.).

2035. **Pseudopeziza sphæroides** Mass. [*Peziza.* Desm.].

N.E.—Scarboro', on dead stems of *Lychnis diurna.*

2036. **Pseudopeziza albella** Mass. [*Peziza.* With.].

S.W.—Hebden Bridge, on fallen hazel-twig '04.

2037. **Pseudopeziza benesueda** Mass. [*Peziza.* Tul.].

S.W.—Birdwell nr. Barnsley (F.F. '97). Hebden Bridge, on dead alder-twig (Fl. Hx.).

N.E.—Mulgrave Woods (F.F. 1900). Egton Bridge (F.F. '02).

N.W.—Masham, on dead alder-branch ('Nat.' May '03). Brignall, on dead branches of alder (F.F. '04).

2038. **Pseudopeziza discolor** Mass. [*Patellaria.* Mont.].

S.W.—Huddersfield (F.F. '95). Nr. Hebden Bridge; and Walter Clough, Southowram, on dead sycamore wood (Fl. Hx.).

2039. **Pseudopeziza retrusa** Mass. [*Peziza.* Phil. & Plow. Grev. iv. p. 122, pl. 62, fig. 6; *Calloria.* Phil. B.D. p. 407.].

N.E.—Scarboro', on dead larch-leaves. (Mass. Brit. Fung. Fl. p. 204, figs. 43-44, p. 156).

ASCOBOLACEÆ.

THELEBOLUS Tode.

2040. **Thelebolus stercoreus** Zukal.

S.W.—Sheffield, on rabbit dung (Researches on Coprophilous Fungi, Mass. & Salmon. I. Annals of Botany, xv. June 1901, pp. 326-327, pl. xviii., figs. 41-44; II. xvi. Mar. 1902, p. 66). ('Nat.' Ap. '02).

RYPAROBIUS Boud. emend.

2041. **Ryparobius Pelletieri** Sacc. [*Ascobolus.* Crouan].

N.E.—Scarboro', on horse dung ('Nat.' Aug. '81; Grev. x., p. 69, 1881; Mass. Brit. Fung. Fl. iv. p. 180, fig. 38, p. 156).

2042. **Ryparobius sexdecemsporus** Sacc. [*Ascobolus.* Crouan; *Ascophanus.* Boud.].

N.E.—Scarboro', on cow dung; these specimens established the first British record.

S.W.—Hebden Bridge, on dog dung (Fl. Hx.). Ecclesall, near Sheffield, on horse dung ('Nat.' Ap. '02).

2043. **Ryparobius Cookei** Boud. [*R. crustacea* Sacc.].

S.W.—Hardcastle, on rabbit dung; Hebden Bridge; Salterhebble; Norland; Savile Park; and Shibden; on dog dung (Fl. Hx.).

(Mass. Brit. Fung. Fl. iv. pp. 182-3, figs. 34-35, p. 156).

2044. **Ryparobius dubius** Boud.'

S.W.—Sheffield, on rabbit dung ('Nat.' Ap. '02).

2045. **Ryparobius argenteus** B. & Br.

N.E.—Scarboro', on rabbit dung.

S.W.—Birdwell (F.F. '97). Elland Park Wood, on horse droppings (Fl. Hx.). Sheffield, on rabbit dung ('Nat.' Ap. '02). Bingley Woods (Fl. Skipt.).

N.W.—Masham, on rabbit dung ('Nat.' Jan. '02).

2046. **Ryparobius subhirsutus** (Renny) Phil.

S.W.—Nr. Hebden Bridge, on rabbit dung (Fl. Hx.).

2047. **Ryparobius Leveilleanus** (Renny) Phil.

S.W.—Hardcastle; Heptonstall; and Crimsworthdean, near Hebden Bridge, on vole dung (Fl. Hx.). Ecclesall, near Sheffield, on rabbit dung ('Nat.' Ap. '02).

ASCOPHANUS Boud.

2048. **Ascophanus microsporus** (B. & Br.) Phil.

N.E.—Scarboro', on cow dung ('Nat.' Aug. '81).

S.W.—Elland Park Wood; and Luddenden Dean, on cow and horse dung (Fl. Hx.). Sheffield, on rabbit dung ('Nat.' Ap. '02).

2049. **Ascophanus granuliformis** (Crouan) Boud.

S.W.—Bradford Moor, and Saltaire, common (Lees' Fl.). Hardcastle (Fl. Hx.). Erringden, par. of Hx. on cow dung, '04.

Mid W.—Harewood (F.F. '98).

N.E.—Egton Bridge, on cow dung (F.F. '02).

2050. **Ascophanus argenteus** Boud. [*Ascobolus*. Currey].

N.E.—Scarboro', on cow dung. Helmsley ('Nat.' Ap. '03).

S.W.—Copley; Shibden; Hardcastle; on cow dung (Fl. Hx.). Bingley Woods (Fl. Skipt.).

N.W.—Brignall, on cow dung in fields (F.F. '04).

2051. **Ascophanus ochraceus** (Crouan) Boud.

S.W.—Elland Park Wood; Luddenden Dean; Hebden Bridge; Booth Dean; on cow dung, etc. (Fl. Hx.). Cadeby, on cow and horse dung (F.F. '01).

Mid W.—Harewood (F.F. '98).

S.E.—North Grimston, on cow dung (*'Nat.' June '02).

2052. **Ascophanus consociatus** (B. & Br.) Phil.

N.W.—Masham, on dead wood, Sep. '03.

2053. **Ascophanus minutissimus** Boud.

S.W.—Bradford, on dung. Ecclesall nr. Sheffield, on cow and horse dung ('Nat.' Ap. '02).

N.E.—Helmsley (H. Slater).

2054. **Ascophanus carneus** Boud. [*Ascobolus carneus* Pers.; *Ascobolus saccharinus* Berk.; *Ascophanus saccharinus* Boud.; *A. carneus* var. *saccharinus* Phil.].

Common. Occurs on cow, sheep, horse, and rabbit dung; rotting sacking, cloth, rope, paper, leather, etc. Records for each county division numerous, with the exception of S.E.

Var. **cuniculi** Boud.

S.W.—Hebden Bridge, on rabbit dung (Fl. Hx.).

According to Boudier this var. is distinguished from the type, by its paler colour, smaller spores and minutely granular epispore.

Var. **testaceus** Mass. [*Ascobolus*. Moug.].

Mid W.—Harewood, on rabbit dung (F.F. '98).

N.E.—Coxwold, on rabbit dung (*'Nat.' Sep. '02).

S.W.—Kiveton Park (T. Gibbs).

2055. **Ascophanus equinus** Mass. [*Peziza equinus* Müll.; *Ascobolus ciliatus* Schm.; *Ascoph. pilosus* Boud.].

S.W.—Very common on horse, cow, and rabbit dung: occasionally on dog dung. Records most numerous for this division, especially in the Halifax, Hebden Bridge, and intervening districts. Will be found to be common in all the other county divisions when properly looked up.

N.E.—Scarboro' ('Nat.' Aug. '81). Staithes (*'Nat.' Ap. '98). Egton Bridge (F.F. '02). Helmsley (H. Slater, '03).

Mid W—Beamsley; Meanwood; etc. (Lees' Fl.).

N.W.—Masham ('Nat.' Jan. '02).

ASCOBOLUS Pers.

2056. **Ascobolus Crosslandi** [*A.* (*Sphæridiobolus*) *Crosslandi* Boud., Bull. Soc. Myc. France xiv., 1898, pp. 126-7, pl. xi. fig. IIa.-IIe.; *Boudiera*. Mass. 'Nat.' June 1901, p. 179].

S.W.—Salterhebble, Halifax, on dog dung (New British Fungi, Sopp. & Crossl. 'Nat.' Jan. '99, pp. 29-31, figs. 9-13).

2057. **Ascobolus denudatus** Fr.

S.W.—Hardcastle, on decaying wood, fir needles, etc.; and Cob Clough, Ripponden, on decaying wood (Fl. Hx.).

2058. **Ascobolus vinosus** Berk.

S.W.—Storthes Hall, Huddersfield. Hardcastle; and Hebden Bridge (Fl. Hx.). Cadeby (F.F. '01). Goitstock (Fl. Skipt.). Sheffield ('Nat.' Ap. '02).

Mid W.—Leeds district (Lees' Fl.).

N.E.—Mulgrave Woods (F.F. '1900).

N.W—Rokeby (F.F. '04).

On rabbit dung at all the above places.

2059. **Ascobolus glaber** Pers.

S.W.—Numerous places in the Halifax, Hebden Bridge, and intervening districts, on horse, cow, and rabbit dung (Fl. Hx.). Goitstock. Potridings Wood, on cow dung (F.F. '01). Ecclesall, near Sheffield, on rabbit dung ('Nat.' Ap. '02).

N.E.—Scarboro', on horse dung. Stokesley (Exc. '99). Coxwold, on rabbit dung (*'Nat.' Sep. '02).

2060. **Ascobolus Leveillei** Boud. Mem. sur les Ascoboles, p. 35, t. vii. f. 16.

S.W.—Copley, Halifax, on horse manure in market garden, in immense quantity, Nov. '98. The first British record is based on these specimens (New British Fungi, Sopp. and Crossl. 'Nat.' Jan. '99, p. 29.)

2061. **Ascobolus minutus** Boud.

S.W.—Hebden Bridge, on dog dung, July '99. The first British record is based on these specimens (New and Critical British Fungi, Crossl. 'Nat.' Jan. 1900, p. 8; also June 1901, p. 180).

2062. **Ascobolus ærugineus** Fr.

N.E.—Bulmer, on cow dung (Tr. i. & iv.).

S.W.—Saltaire (Lees' Fl.). Hardcastle (Fl. Hx.).

2063. **Ascobolus stictoideus** Speg.

S.W.—Skircoat, Halifax, on dog dung, Feb. '99. The first British record is based on these specimens (New and Critical Fungi, Crossl. 'Nat.' Jan. 1900, p. 8; June 1901, p. 179).

2064. **Ascobolus furfuraceus** Pers.

Common on cow dung in fields everywhere; much less common on horse dung. Records numerous for each county division (Mass. Brit. Fung. Fl. iv. pp. 161-4, with fig.).

2065. **Ascobolus Crouani** Boud.

S.W.—Elland; and near Hebden Bridge, on rotten wood (Fl. Hx.).

2066. **Ascobolus viridis** Currey.

N.E.—Scarboro', on damp clay ground. Mulgrave Woods, on the ground (F.F. 1900).

S.W.—Nr. Hebden Bridge, on the ground ('Nat.' June '94); also Norland; Luddenden Dean; and Elland (Fl. Hx.). Hugsett (F.F. '97). Cullingworth, on damp clay ground.

N.W.—Swinton, near Masham, Aug. '03.

2067. **Ascobolus atro-fuscus** Phil & Plow.

S.W.—Elland ('Nat.' June '94); Norland; and near Hebden Bridge, principally on road scrapings (Fl. Hx.).

N.E.—Egton Bridge, on charred ground (F.F. '02).

2068. **Ascobolus barbatus** Mass. & Crossl.

MID W.—Meanwood, Leeds, on tan refuse (New or Critical British Fungi, Massee Grev. xxii. June 1894, pp. 97-98 with figure; Mass. Brit. Fung. Fl. iv. pp. 166-7).

2069. **Ascobolus immersus** Pers.

S.W.—Saltaire ('Nat.' Aug. '81). Shipley Glen (Lees' Fl.). Bingley (Fl. Skipt.). Huddersfield (F.F. '95). Cadeby, etc. (F.F. '01). Sheffield ('Nat.' Ap. '02). Warley; Skircoat; Hardcastle; Elland; etc. (Fl. Hx.).

N.E.—Scarboro'. Stokesley (Exc. '99). Egton Bridge (F.F. '02). Helmsley (F.F. '03).

N.W.—Masham.

Frequent on horse, cow, and sheep dung.

2070. **Ascobolus brunneus** Cke.

S.E.—Boynton (W.W.S.). On cow dung.

N.E.—Scarboro', on cow dung.

S.W.—Luddenden Dean; Hardcastle; Shibden; on horse, cow, and rabbit dung (Fl. Hx.). Goitstock, on horse dung.

SACCOBOLUS Boud.

2071. **Saccobolus depauperatus** (B. & Br.) Phil.

N.E.—Stokesley, on horse dung (Exc. '99). Helmsley, '03.

2072. **Saccobolus granulospermus** Sopp. & Crossl.

MID W.—Harewood, on cow dung (F.F. '98). For diagnosis see (New British Fungi, Sopp. & Crossl. 'Nat.' Jan. '99, p. 30, figs. 14-17, p. 31).

2073. **Saccobolus violascens** Boud.

N.E.—Scarboro', on rabbit dung.

2074. **Saccobolus neglectus** Boud.

S.W.—Cadeby, on rabbit dung (F.F. '01). Sheffield, on rabbit dung ('Nat.' Ap. '02).

N.E.—Helmsley, on sheep dung ('Nat.' Ap. '04).

2075. **Saccobolus Kerverni** Boud. [*Ascobolus*. Crouan].

N.E.—Scarboro', on cow dung.

S.W.—Saltaire, on old cow dung (Lees' Fl.). Goitstock.

BULGARIACEÆ.

OMBROPHILA Fr.

2076. **Ombrophila decolorans** (Berk. & Curtis).

N.W.—Masham, on rotting oak-stump ('Nat.' Jan. '02).

The first European record is based upon the Masham specimens; hitherto a North American species. The type specimen was gathered in Alabama by Peters (5222) and described by Berkeley and Curtis, under *Bulgaria decolorans*, in Grev. iv. 1876, p. 6; it is in Berkeley's Herbarium (North American Fungi, n. 771) at Kew, and is one of those which have undergone re-description there, the full text of which, and a figure, are contained in the Linnean Society's Transactions xxxi. pp. 466-7, pl. 18, figs. 23-24.

2077. **Ombrophila clavus** Cke. [*Peziza*. A. & S.].

S.W.—Common in spring, on twigs and dead herbaceous stems in very wet places, in the Halifax; Hebden Bridge; and intervening districts (Fl. Hx.). Eller Carr, and Goitstock, Cullingworth, on twigs in water. Sheffield.

N.E.—Scarboro', on dead alder-leaves in water.

N.W.—Masham, on wet, dead grass and twigs ('Nat.' Jan. '02).

Mid W.—Skipton, on the underside of rainwater tub in a garden, '03 (J. E. Sutcliffe).

"Very variable in form and size, stem sometimes almost absent, sometimes short and stout, and in rarer cases 1-2 cm. long, and very slender" (Mass. Brit. Fung. Fl. iv., p. 142, figs. 13-14, p. 156).

2078. **Ombrophila rudis** Phil. [*Peziza*. Berk.].

N.E.—Scarboro', on gravel.

2079. **Ombrophila brunnea** Phil.

S.W.—Nr. Hebden Bridge ('Nat.' June '94).

ORBILIA Fr.

2080. **Orbilia coccinella** Karst. [*Peziza*. Sommerf.; *Calloria*. Phil.].

S.W.—Hardcastle, on wood (Fl. Hx.).

2081. **Orbilia vinosa** Karst. [*Peziza*. A. & S.].

N.E.—Scarboro', on dead wood ('Nat.' Aug. '81).

S.W.—Steeton (Lees' Fl.). Frequent in the Halifax and Hebden Bridge districts, on dead wood, bark, rotting twigs, cloth, sacking, shoe leather, rope, etc. (Fl. Hx.). Birdwell (F.F. '97).

N.W.—Masham ('Nat.' Jan. '02). Rokeby, etc. (F.F. '04).

2082. **Orbilia flexuosa** Crossl. Grev. xxii. p. 44.

S.W.—Sun Wood, Lightcliffe, '93; and North Dean Wood, '94, on dead branches (Fl. Hx.).

N.E.—Langdale End, near Scarboro' (Exc. '97).

2083. **Orbilia leucostigma** [*Calloria*. Phil.].

Common on dead wood and bark. Records numerous. Distribution general.

Var. **xanthostigma** Rehm.

N.E.—Mulgrave Woods (F.F. 1900). On wood.

N.W.—Masham, on wood, also on a *Corticium* which partially enveloped the wood ('Nat.' Jan. '02). Rokeby (F.F.'04).

2084. **Orbilia succinea** Quel. [*Calloria*. Fr.].

N.E.—Coxwold (*'Nat.' Sep. '02).

2085. **Orbilia auricolor** Sacc. [*Peziza*. Blox.].

S.W.—Nr. Hebden Bridge, on wood ('Nat.' June '94). Ecclesall Wood, Sheffield.

N.E.—Egton Bridge, on dead wood (F.F. '02).

(Mass. Brit. Fung. Fl. iv. p. 148, figs. 45-47 p. 156).

2086. **Orbilia luteo-rubella** Karst. [*Peziza*. Nyl.].

S.W.—Sun Wood, Lightcliffe, near Hx., on the inside of a sheet of decaying bark ('Nat.' June '94).

N.E.—Scarboro', on dead *Polyporus squamosus*. Stokesley (Exc. '99). Egton Bridge, on dead wood (F.F. '02).

N.W.—Masham, on decaying wood ('Nat.' Jan. '02).

2087. **Orbilia inflatula** Karst.

N.E.—Scarboro', on dead bark. Mulgrave (F.F. '1900).

S.W.—Ecclesall Wood, near Sheffield, on *Angelica* stems.

(Mass. Brit. Fung. Fl. iv. p. 149, figs. 48-51, p. 156).

CALLORIA Fr.

2088. **Calloria fusarioides** Fr. [*Peziza*. Berk.].

N.E.—Bulmer; Scarboro' (Tr. iv.).

Mid W.—Apperley; Bolton Woods (Lees' Fl.). Clapham; Harrogate (Lees' Fl. Add.).

S.W.—Saltaire (Lees' Fl.). Hebden Bridge (Fl. Hx.).

N.W.—Swinton, nr. Masham ('Nat.' May '03). Rokeby, '04. On dead stems of nettles.

2089. **Calloria cornea** Phil. [*Peziza*. B. & Br.].

N.E.—Raincliffe Wood, Scarboro', on dead *Carex pendula*.

CORYNE Tul.

2090 **Coryne urnalis** Sacc. [*Bulgaria*. Nyl.; *Ombrophila*. Karst.; *Ombrophila purpurea* Fckl.; etc.].

S.W.—Not infrequent on tree stumps in the Halifax and Hebden Bridge disiricts; has once been found on decaying acorn (Fl. Hx.). Cullingworth, on stumps.

N.E.—Scarboro'. on stumps.

N.W.—Masham, on dead wood ('Nat.' May '03).

2091. **Coryne sarcoides** Tul. [*Lichen*. Jacq.; *Helvella*. Dicks.; *Peziza*. Pers.; *Bulgaria*. Fr.; *Ombrophila*. Karst.].

S.W.—Halifax, 1789, "Grows between the bark and the wood, on stumps of oak trees, the first winter after their fall, and is pretty common about Halifax" (Bolton, Tab. 101 f. 2). Still very common and with exactly similar habit, but also on beech, ash, and other stumps. Records for each county division numerous.

2092. **Coryne atrovirens** Sacc. [*Peziza*. Pers.].

N.E.—Castle Howard (Tr. iv.). Scarboro', on dead furze.

2093. **Coryne aquatica** Mass. and Crossl.

N.W.—Egton Bridge, among moss on a boulder in the stream (F.F. '02). For diagnosis and remarks see (New Fungi, 'Nat.' Jan. '04)

BULGARIA Fr. emend.

2094. **Bulgaria polymorpha** Wetts. [*Peziza polymorpha* Œder.; *P. inquinans* Pers.; *B. inquinans* Phil.; etc.].

Not uncommon on dead trunks of beech, oak, elm, alder,

etc., especially beech. Is recorded as growing on living oak trunks; and at the Helmsley Fungus Foray it was noticed to be bursting through the bark of a fine living beech all around the trunk to a distance upward of 20, or more, feet. Distribution general. Records many for each county division.

BULGARIELLA Karst.

2095. **Bulgariella pulla** (Fr.) Karst.

N.E.—Mulgrave Woods, on rotten wood (F.F. 1900).

(Mass. Brit. Fung. Fl. iv. p. 141, figs. 8-10, p. 156).

DERMATEACEÆ.

CENANGIUM Fr.

2096. **Cenangium furfuraceum** De N. [*Peziza.* Roth.; *Dermatea.* Fr.; *Encoelia.* Phil.].

N.E.—Scarboro', on hazel branch.

2097. **Cenangium populneum** Rehm. [*Peziza populnea* Pers.; *P. fascicularis* A. & S.; *Encoelia fascicularis* Karst.].

Mid W.—Ingleton, on oak branches (Lees' Fl.).

2098. **Cenangium pulveraceum** Fr. [*Peziza.* A. & S.].

N.E.—Scarboro', on branches of *Prunus communis.*

Mid W.—East Keswick, on beech twig (F.F. '98).

2099. **Cenangium cerasi** Mass. [*Peziza.* Pers.].

N.E.—Castle Howard (Tr. i. & iv.). Scarboro', on dead branches of cherry-laurel.

2100. **Cenangium dryinum** Mass. [*Dermatea.* Cke.].

N.E.—Scarboro', on oak bark.

S.W.—Blakedean, Barkisland; Dudwell, Hx.; Luddenden Dean; and nr. Hebden Bridge, on oak bark and wood (Fl. Hx.).

Mid W.—East Keswick (F.F. '98).

N.W.—Masham ('Nat.' Jæn.'02). Rokeby, on oak (F.F.'04).

2101. **Cenangium sarothamni** Fckl.

N.E.—Scarboro', on dry branches of *Sarothamnus scoparius.*

For diagnosis of these—the first British specimens, see (New British Discomycetes, Mass. & Crossl. 'Nat.' June '01, pp. 178-9).

2102. **Cenangium abietis** Rehm. [*Peziza.* Pers.].

N.E.—Scarboro', on dead twigs of *Pinus sylvestris.*

N.W.—Masham, on branches of *Pinus sylvestris* and *P. strobus*. A saprophyte on fallen pine-branches; in this case the fungus had got to work ere the branches had parted from the tree ('Nat.' May '03).

S.W.—Nr. Hebden Bridge, on pine logs (Fl. Hx.).

TYMPANIS Tode.

2103. **Tympanis conspersa** Fr.

N.E.—Scarboro', on poplar bark.

Mid W.—Malham (Lees' Fl.).

2104. **Tympanis pinastri** Tul. [*Cenangium laricinum* Fckl.; *T. laricina* Phil.].

N.E.—Castle Howard Park, on larch bark.

N.W.—Masham, on bark of conifer, '03.

SCLERODERRIS Fr.

2105. **Scleroderris ribesia** Karst. [*Peziza*. Pers.].

N.E.—Scarboro', on living twigs of *Ribes rubrum*—red currant. A destructive parasite.

(Mass. Brit. Fung. Fl. iv. figs. 48-50, p. 91).

2106. **Scleroderris rubi** Mass. [*Patellaria rubi* Libert.; *Dermatea*. Rehm.; *Peziza rhabarbarina* Berk.; etc.].

N.E.—Scarboro', on dead bramble-branches.

S.W.—Nr. Hebden Bridge, on dead stems of dog-rose (Fl. Hx.).

2107. **Scleroderris pseudoplatani** (Phil.) Mass.

S.W.—Hardcastle, on sycamore bark (Fl. Hx.).

2108. **Scleroderris fagi** Mass. [*Dermatea*. Phil.].

N.W.—Masham, on dead beech, Nov. '03.

2109. **Scleroderris livida** Mass. [*Patellaria*. B. & Br.; *Dermatea*. Phil.; *Durella*. Sacc.; etc.].

S.W.—Nr. Hebden Bridge, on pine bark and wood (Fl. Hx.). Huddersfield, on wood (F.F. '95).

N.W.—Masham, on pine bark, Oct. '03.

SCHWEINITZIA Mass.

2110. **Schweinitzia rufo-olivacea** Mass. [*Peziza*. A. & S.; *Lachnella*. Phil.; *P. fraxinella* B. & Br.; *L. fraxinella* Phil.].

N.E.—Scarboro', on dead ash-branches.

PHÆANGELLA Mass.

2111. **Phæangella prunastri** Mass. [*Dermatea*. Fr.].

N.E.—Scarboro', on branches of *Prunus communis*.

PATELLARIACEÆ.

PATINELLA Sacc.

2112. **Patinella macrospora** Mass. Grev. xxii. p. 44.

S.W.—Nr. Hebden Bridge, on wood ('Nat.' June '94); Hardcastle, on old tub (Fl. Hx.). Figured in Mass. Brit. Fung. Fl. iv. p. 91, figs. 32-35.

2113. **Patinella flexella** Sacc. [*Patellaria*. Phil.].

N.E.—Scarboro,' on dead Scots fir.

2114. **Patinella olivacea** Sacc. [*Peziza*. Batsch].

S.E.—Boynton (W.W.S.).

S.W.—Elland Park Wood ('Nat.' June '94); Elland Hall Wood, on dead logs (Fl. Hx.).

BIATORELLA De Not.

2115. **Biatorella resinæ** Mudd. [*Peziza*. Fr.].

N.E.—Castle Howard Park, on resin on the trunk of Scots fir. (Mass. Brit. Fung. Fl. iv. pp. 95-96, figs. 56-58, p. 12).

PATELLEA Fr.

2116. **Patellea pallida** Mass. [*Patellaria*. Berk.].

N.E.—Scarboro', on bark.

S.W.—Nr. Hebden Bridge, on dead thorn-wood in swamp, and under alder root (Fl. Hx.).

(Mass. Brit. Fung. Fl. iv. p. 97, figs. 38-39, p. 91).

PATELLARIA Wahl.

2117. **Patellaria atro-vinosa** Blox.

N.E.—Scarboro', on bark.

2118. **Patellaria maura** Phil. & Plow.

N.E.—Scarboro', on dead wood.

2119. **Patellaria proxima** B. & Br.

S.W.—Nr. Hebden Bridge, on dead oak-twig (Fl. Hx.).

DURELLA Tul.

2120. **Durella melanochlora** Rehm. Ascom. Alp. n. 27.

S.W.—Nr. Hebden Bridge, on decorticated branch of alder. For diagnosis of these—the first British specimens, see (New Fungi. 'Nat.' Jan. '04, p. 6).

HETEROSPHÆRIA Grev.

2121. **Heterosphæria patella** Grev.

N.E.—Scarboro' (Tr. iv.). Castle Howard. On dead stems of *Angelica sylvestris*.

S.W.—Ingrow, near Keighley, on dead stems of Umbelliferous plants (Lees' Fl.).

Mid W.—Ingleton (Lees' Fl.). Bolton Woods.

(Mass. Brit. Fung. Fl. iv. p. 108, figs. 47-51, p. 12).

SCUTULARIA Karst.

2122. **Scutularia citrina** Karst. [*Patellaria*. B. & Br.].

N.E.—Scarboro', on dead stems of *Rosa canina*.

(Mass. Brit. Fung. Fl. iv. p. 109, figs. 21-26, p. 91).

STICTIDEÆ.

STICTIS Pers.

2123. **Stictis radiata** Pers. [*Schmitzomia*. Phil.].

N.E.—Scarboro', on dead beech wood.

(Mass. Brit. Fung. Fl. iv. pp. 77-78, figs. 22-26, p. 12).

2124. **Stictis annulata** Cke. & Phil., Grev. ix. p. 8. [*Schmitzomia annulata* Phil. Brit. Disc., p. 379].

N.E.—Scarboro', on dead branches of honeysuckle.

NEMACYCLUS Fckl.

2125. **Nemacyclus niveus** Sacc. [*Stictis nivea* Pers.; *Schmitzomia nivea* Phil.].

N.E.—Scarboro', on dead leaves of Scots fir.

S.W.—Hebden Bridge, on dead pine-needles.

(Mass. Brit. Fung. Fl. iv. p. 80, figs. 27-30, p. 12).

PROPOLIS Fr.

2126. **Propolis faginea** Karst. [*Stictis versicolor* Fr.].

N.E.—Scarboro' ('Nat.' Aug. '81). On beech chips.

S.E.—Boynton, on sycamore and hornbeam (W.W.S.).

(Mass. Brit. Fung. Fl. iv. p. 81, figs. 52-56, p. 22).

2127. **Propolis rhodoleuca** Fr.

N.E.—Scarboro', on Scots fir cone scales.

OCELLARIA Tul.

2128. **Ocellaria punctiformis** Sacc. [*Stictis*. Pers.].

N.E.—Scarboro', on dead wood, and on *Salix Caprea*.

CRYPTODISCUS Corda.

2129. **Cryptodiscus pallidus** Corda [*Stictis.* Pers.].

N.E.—Scarboro', on dead beech wood.

2130. **Cryptodiscus angulosus** Karst.

N.E.—Scarboro', on dead wood, and on *Salix Caprea.*

PHACIDIACEÆ.

COCCOMYCES De Not.

2131. **Coccomyces coronatus** De N. [*Ascobolus coronatus* Schum.; *Phacidium coronatum* Fr.; etc.].

S.W.—Halifax, 1785. "This pretty peziza adheres to decaying oak leaves by its whole underside. I saw it in abundance, North Dean Wood Dec." (Bolton, Tab. 109 f. 1 = *Peziza viridis*).

N.E.—Scarboro', on dead oak-leaves.

Mid W.—Harrogate, on dead oak-leaves.

S.E.—Boynton (W.W.S.).

2132. **Coccomyces striatus** [*Phacidium.* Phil. & Plow.].

N.E.—Scarboro' (Tr. iv.). On dead stems of *Rubus.*

2133. **Coccomyces dentatus** Sacc. [*Phacidium.* Schmidt.].

N.E.—Scarboro" on dead oak-leaves.

SCHIZOTHYRIUM Desm.

2134. **Schizothyrium ptarmicæ** Desm.

N.E.—Seamer Moor, Scarboro', on living leaves of *Achillea Ptarmica.* (Mass. Brit. Fung. Fl. iv. p. 55, figs. 21-23, p. 22).

2135. **Schizothyrium aquilinum** (Fr.) Rehm.

N.E.—Scarboro'; Castle Howard; on dead fronds and rachis of *Pteris aquilina* = bracken.

PHACIDIUM Fr.

2136. **Phacidium multivalve** Kze. & Schmidt. [*Phacidium ilicis* Phil.; *Ceuthospora phacidioides* Grev.; etc.].

Mid W.—Bolton Woods (Lees' Fl.). Bishops' Wood (F.F. '96).

S.E.—Wassand (W.W.S.).

S.W.—Nab Wood, Saltaire (Lees' Fl.). Bingley (Fl. Skipt.). Frequent in the Halifax, Hebden Bridge, and intervening districts, on dead leaves of holly.

N.W.—Sedbergh (Lees' Fl.). Masham, on holly leaves ('Nat.' May '03).

2137. **Phacidium Vaccinii** Fr.

Mid W.—Barden, on dead leaves of *Vaccinium Vitis-Idæa*. (Lees' Fl.).

2138. **Phacidium abietinum** Kze. & Schmidt.

N.E.—Scarboro', on fallen leaves of larch and pine.

2139. **Phacidium infestans** Karst.

N.E.—Scarboro', on living leaves of *Pinus sylvestris*. A destructive parasite in Finland. The first British record is based upon the Scarboro' specimens. (Mass. Brit. Fung. Fl. iv. pp. 57-58, fig. 21, p. 12).

TROCHILA Fr.

2140. **Trochila craterium** Fr. [*Sphæria*. DC.].

N.E.—Scarboro' ('Nat.' Aug. '81). Mulgrave (F.F. 1900).

S.W.—Cottingley (Lees' Fl.). Bingley. Frequent in the Halifax, and Hebden Bridge districts.

Mid W.—Bolton Woods (Fl. Skipt.).

Not uncommon, when searched for, on dead, dry ivy-leaves. (Mass. Brit. Fung. Fl. iv. p. 61, figs. 39-41, p. 12).

2141. **Trochila laurocerasi** Fr.

N.E.—Scarboro', on dead leaves of cherry laurel ('Nat.' Aug. '81). Mulgrave Woods (F.F. 1900).

Mid W.—Studley Royal, '81, on cherry laurel.

2142. **Trochila buxi** Capron.

N.E.—Cloughton, near Scarboro', on dead leaves of box.

2143. **Trochila ilicis** Crouan [*Stegia*. Fr.].

Common on fallen holly-leaves: most frequently on the upper surface. Distribution general. Records numerous for each county division, with the exception of S.E., nil.

COLPOMA Wallr.

2144. **Colpoma quercinum** Wallr.

N.E.—Scarboro', on small branches and twigs of oak.

Mid W.—Helks Wood, Ingleton, on oak twigs (Lees' Fl.). Bolton Woods (Fl. Skipt.).

(Mass. Brit. Fung. Fl. iv. p. 62, figs. 59-62, p. 12).

OSTROPA Fr.

2145. **Ostropa cinerea** Fr. [*Hysterium*. Pers.].

N.E.—Scarboro', on dead branches of hazel.

SCHIZOXYLON Pers.

2146. **Schizoxylon Berkeleyanum** Fckl. [*Stictus*. Dur. & Lèv.; *Schmitzomia*. Phil.; etc.].

N.E.—Bulmer, on stems of *Epilobium*. Scarboro', on dead stems of *Artemesia vulgaris*.

(Mass. Brit. Fung. Fl. iv. p. 69, figs. 24-27, p. 22).

CRYPTOMYCES Greville.

2147. **Cryptomyces aureus** Mass. [*Sphæria*. Sow.].

N.E.—Scarboro', on living branches of *Salix Caprea*.

(Mass. Brit. Fung. Fl. iv. p. 74, figs. 4-6, p. 91).

GYMNOASCACEÆ.

ARACHNIOTUS Schröt.

2148. **Arachniotus ruber** Schröt.

S.W.—Cadeby (F.F. '01).

GYMNOASCUS Baran.

2149. **Gymnoascus Reessii** Baran.

N.E.—Castle Howard, on horse dung.

S.W.—Hebden Bridge, on cast-out, rotting hearthrug (Fl. Hx.).

MYXOTRICHUM Kze.

2150. **Myxotrichum chartarum** Kze.

S.W.—Bradford; Saltaire, on paper, straw, etc., in damp situations (Lees' Fl.).

Formerly included in the Hyphomycetæ.

BOLACOTRICHA B. & Br.

1251. **Bolacotricha grisea** B. & Br.

S.W.—Hebden Bridge, on cast-out, rotting hearthrug. Elland Hall Wood, on bit of old damp carpet (Fl. Hx.).

Formerly included in the Hyphomycetæ.

EXOASCACEÆ.

EXOASCUS Fckl.

2152. **Exoascus pruni** Fckl. [*Ascomyces*. B. & Br.].

N.E.—Bulmer, on *Prunus communis*.

"Commonly known as 'pocket-plum, or bladder-plum.'

In addition to attacking various kinds of cultivated plums, the fungus also deforms the fruit of the sloe, bullace, and bird-cherry" (Mass. Text-Book of Plant Diseases, pp. 85-88, f. 12).

2153. **Exoascus deformans** Fckl. [*Ascomyces.* B.].

N.E.—Scarboro', on peach leaves (cultivated). Popularly known as "leaf curl." (Mass. Text-Book of Plant Diseases, pp. 82-85, f. 11).

2154. **Exoascus turgidus** Sadeb. [*Ascomyces turgidus* Phil. Brit. Disc.; *Taphrina betulina* Rostr.].

N.E.—Scarboro', on *Betula alba* ('Nat.' June '04).

"This forms the familiar dense tufts of branches on the silver birch. Witches 'brooms'" (Mass. Text-Book of Plant Diseases, p. 89). Other clustered branches of similar appearance, common on silver birch, are due to the work of a mite called *Phytoptus rudis.*

TAPHRINA Fr.

2155. **Taphrina aurea** Fr. [*Ascomyces aureus* Magn.; *Exoascus aureus* Sadeb.; *E. populi* Thum.].

N.E.—Scarboro', on black-poplar leaves.

PHYCOMYCETES.

MUCORACEÆ.

PILOBOLUS Tode.

2156. **Pilobolus crystallinus** Tode.

S.W.—Halifax, 1784, on horse and cow dung (Bolton, Tab. 133 f. 1). Very common on horse and cow dung in fields everywhere. Records numerous for each county division.

2157. **Pilobolus Kleinii** Van Teigh [*P. roridus* Curr.].

N.W.—Bowes (*'Nat.' Sep. '03). On cow dung.

2158. **Pilobolus roridus** Pers. [*Mucor roridus* Relh.].

S.W.—Halifax, on horse dung in fields (Bolton, Tab. 132 f. 4). Nr. Hebden Bridge, on rabbit dung; Elland Park Wood, on horse dung (Fl. Hx.). Huddersfield (F.F. '95). Stainborough (F.F. '97).

N.E.—Scarboro', on cow dung.

S.E.—Escrick (F.F. '96).

2159. **Pilobolus Œdipus** Mont.

S.W.—Dudwell, Halifax, on dung (Fl. Hx.).

PILAIRA Van Teigh.

2160. **Pilaira anomala** Schroet.

N.E.—Scarboro', on goose dung. Stokesley (Exc. '99).

S.W.—Hardcastle, on rabbit dung; Hebden Bridge, and North Dean Wood on dung of barn-door fowl; Skircoat; Hx. (Fl. Hx.). Cadeby, on rabbit dung (F.F. '01).

Mid W.—Harewood, on rabbit dung (F.F. '98).

N.W.—Masham, on dung of wood pigeons ('Nat.' May '03). (Mass. British Fungi (1891) p. 84, pl. i., figs. 1-5).

MUCOR Mich.

2161. **Mucor mucedo** L.

S.W.—Halifax, 1789, on putrid fruits, etc. (Bolton, Tab. 132 f. 1). About Halifax, and Hebden Bridge on various decaying substances (Fl. Hx.). Cadeby; Melton; on dung (F.F. '01).

Mid W.—Harewood (F.F. '98).

N.E.—Mulgrave Woods (F.F. 1900). Helmsley, '03.

N.W.—Masham ('Nat.' Jan. '02). Rokeby (F.F. '04).

Var. **caninus** (Pers.).

N.E.—Scarboro' (Tr. iv.). On dog dung. Mulgrave, 1900.

S.W.—Hipperholme; Salterhebble; and Hebden Bridge, on dog dung (Fl. Hx.).

2162. **Mucor stercoreus** Link [*Hydrophora.* Tode.].

Mid W.—Leeds, on dung (Lees' Fl.).

S.W.—Saltaire (Lees' Fl.). Elland Wood (Fl. Hx.)

2163. **Mucor amethysteus** Berk.

Mid W.—Leeds, on decaying pears (Lees' Fl.).

S.W.—Halifax, on imported tomatoes (Fl. Hx.).

PHYCOMYCES Kze.

2164 **Phycomyces nitens** Kze.

N.E.—Scarboro', on fat (Tr. iv.).

S.W.—Halifax, on saddle of mutton hung in shop to mature; Hebden Bridge on greasy soil in foundry ('Nat.' June '94); Halifax, on grease in warehouse; growing from the pore of a cocoanut stored in a damp cellar (Fl. Hx.).

SPINELLUS Van Teigh.

2165. **Spinellus fusiger** Van Teigh [*Mucor.* Cke.].

N.E.—Scarboro' (Tr. iv.); (Jour. Micr. Soc. Oct. '85). Raincliffe Wood, Scarboro', on the gills of *Mycena pura*. Cloughton, near Scarboro', on *Mycena epipterygia* ('Nat.' Jan. '92). Helmsley; Rievaulx (F.F. '03).

Mid W.—Harewood (F.F. '81). Grassington.

S.W.—Saltaire, on *Mycena galericulata* (Lees' Fl.). Hardcastle (Fl. Hx.). Cadeby; Melton, on *Agaric. sp.?* (F.F. '01).

S.E.—Escrick on pileus of *Mycena* (F.F. '96).

N.W.—Masham ('Nat.' Jan. '02). Brignall, etc. (FF.'04).

On decaying *Agarics*, principally attacking members of the genus *Mycena*.

(Mass. British Fungi (1891) pp. 94-95, pl. iv., figs. 74-77).

SPORODINIA Link.

2166 **Sporodinia aspergillus** Schröt. [*S. dichotoma* Corda; *Syzygites megalocarpus* Ehrb.; *Mucor ramosus* Bull.].

S.W.—Goole ('Nat.' Aug. '81). Burgh Wallis (F.F. '99). Cadeby; Melton; and Potridings Wood (F.F. '01). Elland Wood (Fl. Hx.).

N.E.—Scarboro', on *Boletus luridus*, and *Hygrophorus pratensis*. Welham Park, Castle Howard (F.F. '92). Mulgrave Woods (F.F. 1900). Coxwold, on decaying *Agaric* (*'Nat.' Sep. '02). Arncliffe Woods (F.F. '02). Helmsley (F.F. '03).

S.E.—Allerthorpe (F.F. '93). Escrick (F.F. '96).

Mid W.—Harewood (F.F. '98). Bolton Woods.

On both living and dead *Agarics* and *Boleti*.

(Mass. British Fungi (1891), pp. 94-95, pl. i. figs. 6-11).

HELICOSTYLUM Corda.

2167. **Helicostylum elegans** Corda.

N.E.—Scarboro', on rotten leaves.

(Mass. British Fungi (1891), pp. 96-97, pl. i. figs. 15-17).

THAMNIDIUM Link.

2168. **Thamnidium elegans** Link.

S.W.—Norland; Brookfoot, Brighouse; on dog dung; Elland Wood, on barn-door fowl dung (Fl. Hx.).

RHIZOPUS Ehrb.

2169. **Rhizopus nigricans** Ehrb.

S.W.—Luddenden Dean, on decaying leaves; Clover Hill, Halifax, on rotting turnip (Fl. Hx.).

N.E.—Scarboro', on rotten leaves.

(Mass. British Fungi (1891), p. 100, pl. i. figs. 24-25).

CIRCINELLA Van Teigh.

2170. **Circinella simplex** Van Teigh.

S.W.—Copley, on dog dung (Fl. Hx.).

(Mass. British Fungi (1891), p. 101, pl. i. figs. 13-14).

CHÆTOCLADIUM Fres.

2171. **Chætocladium Jonesii** Fres. [*Botrytis*. B. & Br.].

S.W.—Hardcastle, on rabbit dung; Elland Wood, on horse dung (Fl. Hx.). Cadeby, on rabbit dung (F.F. '01).

Mid W.—Bolton Woods (Fl. Skipt.).

N.E.—Scarboro', on pig dung.

(Mass. British Fungi (1891), p. 102, pl. iv. figs. 62-63).

PIPTOCEPHALIS De By.

2172. **Piptocephalis repens** De By.

S.W.—Cadeby; Melton; on rabbit dung (F.F. '01).

MORTIERELLA Coemans.

2173. **Mortierella candelabrum** Van Teigh.

S.W.—Bradford, on pileus of *Cantharellus* (H.T.S.).

PERONOSPORACEÆ.

CYSTOPUS Lév.

2174. **Cystopus candidus** Lév.

Common on various cruciferous plants, especially *Capsella Bursa-pastoris* — shepherd's purse. Distribution general. Records numerous for each county division.

(Mass. British Fungi (1891), p. 108, pl. v. figs. 99-100; pl. vii. figs. 127-128).

2175. **Cystopus tragopogonis** Schroet. [*Cystopus cubicus* De By.; *Uredo candida*, *β. tragopogi* Pers.].

Mid W.—Leeds, on goatsbeard (Lees' Fl.).

PHYTOPHTHORA De By.

2176. **Phytophthora infestans** De By. [*Peronospora.*].

Only too common on leaves of the potato in every district, causing the well-known potato disease.

(Mass. Text-Book of Plant Diseases, pp. 62-65, fig. 7).

PLASMOPARA Schroet.

2177. **Plasmopara pygmæa** Schroet. [*Peronospora.*].

S.W.—Bingley; Saltaire; on leaves of *Anemone nemorosa* in woods, common (Lees' Fl.).

2178. **Plasmopara nivea** Schroet. [*Peronospora.* Ung.].

N.E.—Scarboro', on leaves of *Anthriscus sylvestris.*

Mid W.—Malham, on leaves of *Chærophyllum sylvestre* = *A. sylvestris*, and other Umbelliferæ (Lees' Fl.). Esholt, on *A. sylvestris* (J. E. Sutcliffe).

S.W.—Saltaire (Lees' Fl.). Hebden Bridge, on similar host plant (Fl. Hx.).

(Mass. British Fungi (1891), p. 113, pl. iv. figs. 66-70).

2179. **Plasmopara densa** Schroet.

Mid W.—Cocket Moss, Giggleswick, on *Rhinanthus Crista-galli* ('Nat.' Aug. '03). The first record of this rather uncommon parasitic mould occurring on *Rhinanthus;* its hosts hitherto recorded in Britain are *Euphrasia officinalis*, and *Bartsia Odontites.*

2180. **Plasmopara pusilla** Schroet.

Mid W.—Embsay, near Skipton; and Esholt, on *Geranium pratense* ('Nat.' Aug. '03); not previously recorded for Great Britain.

PERONOSPORA Corda.

2181. **Peronospora viciæ** De By.

N.E.—Bulmer (Tr. iv.). Scarboro', on *Viccia Cracca.*

2182. **Peronospora arenariæ** Tul.

S.W.—Roche Abbey (Lees' Fl.). Bingley (Fl. Skipt.).

N.W.—Masham, on *Cerastium triviale* ('Nat.' May '03).

2183. **Peronospora parasitica** De By.

N.E.—Scarboro', on cultivated wallflower.

S.W.—Anston Stones ('Nat.' June '85). Newsholme

Dean, near Keighley, on *Cardamine pratensis* (Lees' Fl.). Bingley (Fl. Skipt.). Hebden Bridge, on shepherd's-purse (Fl. Hx.).

Mid W.—Leeds, on leaves of cabbages (Lees' Fl.). Skipton, on *Alliaria officinalis* = *Sisymbrium Alliaria* (J.E.S.).

(Mass. British Fungi (1891) p. 119, pl. iii. figs. 45-6; pl. vii. fig. 129).

2184. **Peronospora ficariæ** Tul.

Mid W.—Studley Royal; and Micklefield (F.F. '81).

S.W.—Anston Stones, on leaves of pilewort.

N.E.—Scarboro', on leaves of *Ranunculus acris*.

On the under surface of living leaves of *Ranunculus sp.*

2185. **Peronospora affinis** Rossm.

S.W.—Knottingley, on *Fumaria officinalis* ('Nat.' Oct. '93).

2186. **Peronospora violæ** De By.

S.W.—Roche Abbey, on violets (Lees' Fl.).

2187. **Peronospora trifoliorum** De By.

N.E.—Scarboro' on *Ononis*.

Mid W.—Harewood; East Keswick (F.F. '98).

S.W.—Nr. Hebden Bridge on *Trifolium repens* (Fl. Hx.).

2188. **Peronospora grisea** De By.

N.E.—Scarboro' ('Nat.' Aug. '81).

S.W.—Saltaire; Bingley; on leaves of *Veronica Beccabunga*, very common (Lees' Fl.).

Mid W.—Dunnow, on *V. Beccabunga* (Exc. '96). Malham (Fl. Skipt.).

S.E.—Market Weighton (Exc. '97). Hornsea, on *V. Beccabunga* (Exc. 1900). Occurs on several other sp. of *Veronica*.

2189. **Peronospora effusa** Rabh.

N.E.—Ayton, near Scarboro', on *Chenopodium glaucum*.

S.W.—Askern, on *Atriplex patula* (*'Nat.' Oct. '93). Bingley. Nab Wood, Saltaire, on *C. Bonus-Henricus* (J.E.S.).

2190. **Peronospora urticæ** De By.

Mid W.—Malham, on nettle stems (Lees' Fl.).

2191. **Peronospora Schleideni** Ung. [*P. Schleideniana* De By.].

S.W.—Anston Stones ('Nat.' June '85). Kiveton (Lees' Fl.). Bingley (Fl. Skipt.). Elland Park Wood (Fl. Hx.).

Mid W.—Airton; Malham; etc. (Lees' Fl.). Bolton Woods (Fl. Skipt.). Dunnow; Slaidburn (Exc. '96).

Not uncommon on leaves of *Allium ursinum*.

2192. **Peronospora candida** Fckl.

Mid W.—Malham, on primrose leaves (Lees' Fl.).

2193. **Peronospora sparsa** Berk.

N.E.—Bulmer, on living rose leaves (Tr. iv.).

SAPROLEGNIACEÆ.

SAPROLEGNIA.

2194. **Saprolegnia ferox** Nees. "Salmon disease."

N.E.—Bulmer (Tr. iv.). Scarboro', on dead flies.

S.W—Hainworth, amongst algæ. Only too common in some seasons, on salmon and other fish in some of our rivers (Lees' Fl.).

On dead flies, fish, newts, etc., in water. Causing the well-known and destructive salmon disease. Common. *Empusa muscæ* Cohn, was at one time considered to be an imperfect aerial condition of the present species, but it is now known that the two are not in any way related (Mass. British Fungi (1891), p. 132).

PYTHIUM Pringsh.

2195. **Pythium De-Baryanum** Hesse.

N.E.—Scarboro', on seedlings of garden Balsams.

S.W.—Halifax, on cultivated cress seedlings (Fl. Hx.).

ENTOMOPHTHORACEÆ.

EMPUSA Cohn.

2196. **Empusa muscæ** Cohn.

N.E.—Scarboro', on dead flies.

S.W.—Halifax, common on house-flies.

N.W.—Masham, enveloping a dead fly ('Nat.' Jan. '02).

Common each year in Aug. & Sep. on house-flies—*Musca domestica*, and other dipterous insects. Best seen in the case of the former, when attached to window panes, where the

numerous, abjected gonidia are seen to form a white halo round the dead fly.

CHYTRIDIACEÆ.

SYNCHYTRIUM De By. & Woron.

2197. **Synchytrium anemones** Woron.

S.W.—Saltaire (Lees' Fl.). Bingley (Fl. Skipt.). Hebden Bridge (Fl. Hx.).

Mid W.—Bolton Woods (Fl. Skipt.).

N.E.—Castle Howard.

On living leaves and other parts of *Anemone nemorosa.*

2198. **Synchytrium mercurialis** Fckl.

Mid W.—Clapham (Lees' Fl.).

S.W.—Shipley Glen; Bingley; Anston Crags (Lees' Fl.). Elland; and several places near Hebden Bridge (Fl. Hx.).

On living leaves and peduncles of *Mercurialis perennis.*

2199. **Synchytrium taraxaci** De By.

Mid W.—Washburn (*'Nat.' Sep. '83), on dandelion.

S.W.—Wilsden (Lees' Fl.). Bingley and Cullingworth (Fl. Skipt.). Hebden Bridge; Elland Park Wood; Cragg Vale (Fl. Hx.).

N.E.—Scarboro'.

On the leaves and involucres of *Taraxacum officinale.*

2200. **Synchytrium stellariæ** Fckl.

N.E.—Scarboro', on *Stellaria media*—chickweed.

RHIZIDIUM A. Braun.

2201. **Rhizidium Westii** Mass.

S.W.—Bradford, in cells of *Spirogyra nitida.* This species was established on specimens collected by W. West, at Frizinghall, Bradford.

"Gregarious in *Spirogyra nitida* and *Cladophora glomerata.* Not uncommon." (Mass. British Fungi (1891), pp. 155-6, pl. ii. figs. 36-37).

POLYPHAGUS Nowak.

2202. **Polyphagus euglenæ** Schroet.

N.E.—Seamer Moor, Scarboro', parasitic on *Euglena viridis.* (Mass. British Fungi (1891), pp. 156-7, pl. iv. figs. 78-82).

PROTOMYCETACEÆ.

PROTOMYCES Ung.

2203. **Protomyces macrosporus** Ung.

N.E.—Scarboro'; Bulmer; on living petioles of *Ægopodium Podagraria*.

Mid W.—Skipton, on *Æ. Podagraria* (Fl. Skipt.).

S.W.—Hebden Bridge, on *Heracleum Sphondylium* (Fl. Hx.).

(Mass. British Fungi (1891), p. 162, pl. iii. figs. 50-51).

2204. **Protomyces pachydermus** Thüm.

N.E.—Scarboro', on living petioles of *Taraxacum officinale*.

"Resembling *P. macrosporus* in habit, but distinguished by the smaller spores" (Mass. British Fungi (1891), p. 163).

2205. **Protomyces menyanthis** De By. [*Physoderma menyanthis* Sacc.].

N.E.—Seamer Carr, Scarboro', on living leaves of *Comarum palustre*.

2206. **Protomyces ari** Cke.

S.W.—Anston Stones (*'Nat.' June '85).

On leaves and petioles of *Arum maculatum*.

2207. **Protomyces purpureo-tingens** Mass.

N.E.—Scarboro', in the cotyledons and leaves of seedling sunflowers (Mass. British Fungi (1891), p. 164, pl. iv. figs. 72-73).

ENTYLOMA De By.

2208. **Entyloma ranunculi** Schroet. [*Fusidium ranunculi* Bon.; *Glœosporium ficariæ* Cke. Hdbk.].

Mid W.—Bolton Woods (Fl. Skipt.).

S.W.—Saltaire, (Lees' Fl.).

On leaves of *Ranunculus Ficaria*.

2209. **Entyloma chrysosplenii** Schroet. [*Protomyces chrysosplenii* B. & Br.].

Mid W.—Bolton Woods; Malham (Lees' Fl.).

On leaves of *Chrysosplenium alternifolium*.

2210. **Entyloma microsporum** Schroet. [*Protomyces microsporus* Ung.; *E. Ungerianum* Cke. M.F. ed. iv.].

S.W.—Kiveton, on *Ranunculus Ficaria* (Lees' Fl.).

DOASSANSIA Cornu.

2211. **Doassansia sagittariæ** Fischer. [*Protomyces sagittaria* Fckl. Cke. Micro. Fungi, ed. iv.].

MID W.—Gilstead in plenty (Lees' Fl.).

S.W.—Nr. Keighley (Lees' Fl.). On *Sagittaria sagittifolia*.

DEUTEROMYCETES.

SPHÆROPSIDEÆ.

SPHÆRIOIDACEÆ.

PHYLLOSTICTA Pers.

2212. **Phyllosticta ruborum** Sacc.

N.E.—Helmsley, on living leaves of bramble (F.F. '03).

2213. **Phyllosticta rosæ** Desm.

N.E.—Scarboro', on leaves of dogrose.

2214. **Phyllosticta lauri** Westend.

N.E.—Scarboro', on leaves of *Laurus nobilis*.

2215. **Phyllosticta berberidis** Rabh.

N.E.—Scarboro', on leaves of barberry.

2216. **Phyllosticta lappæ** Sacc.

N.E.—Scarboro', on leaves of burdock.

2217. **Phyllosticta violæ** Desm.

N.E.—Egton Bridge, on violet leaves (F.F. '02).

2218. **Phyllosticta primulæcola** Desm.

S.W.—Melton, on fading leaves of primrose (F.F. '01).

2219. **Phyllosticta vulgaris.**

Var. **loniceræ** Desm.

N.E.—Castle Howard ('Nat.' Aug. '81). On honeysuckle.

PHOMA Fr.

2220. **Phoma scobina** Cke.

N.E.—Scarboro', on ash leaves.

2221. **Phoma velata** Sacc.

N.E.—Scarboro', on lime twigs.

2222. **Phoma taxi** (Berk.) Sacc.

N.E.—Scarboro', on yew leaves.

2223. **Phoma stictinum** B. & Br.

N.E.—Scarboro' ('Nat.' Aug. '81).

2224. **Phoma asteriscus** Berk.

N.E.—Scarboro' (Tr. iv.). Thirsk (Grev. xiv. p. 31).

S.W.—Ingrow, on dead stems of *Heracleum Sphondylium* (Lees' Fl.). Nr. Hebden Bridge, on similar host (Fl. Hx.).

2225. **Phoma caulographa** Dur. & Mont.

S.W.—Elland, on *Chærophyllum temulentum* (New Fungi, Nat.' Jan. '04, first British record). Previously only recorded from Algiers and France, growing on a similar host.

2226. **Phoma lingam** Desm.

N.E.—Bulmer. Scarboro' ('Nat.' Aug. '81), on old cabbage-stalks.

S.W.—Copley, etc., near Halifax (Fl. Hx.).

2227. **Phoma herbarum** West.

N.E.—Scarboro', on dead stems of foxglove.

2228. **Phoma samarorum** Desm.

N.E.—Scarboro' ('Nat.' Aug. '81). Thirsk (Grev. xiv. p. 32). Mulgrave Woods (F.F. 1900).

S.E.—Boynton (W.W.S.).

S.W.—Hebden Bridge (Fl. Hx.).

N.W.—Masham ('Nat.' Jan. '02).

Common on ash fruits.

2229. **Phoma exiguum** Desm.

S.W.—Ainley Wood, Elland, on elder twig (Fl. Hx.).

2230. **Phoma rusci** Sacc.

N.E.—Forge Valley, Scarboro', on cladodes of butchers' broom.

2231. **Phoma nebulosum** Berk.

N.E.—Scarboro' (Tr. iv.). Thirsk (Grev. xiv. p. 31). Mulgrave Woods (F.F. 1900). On nettle stems.

S.W.—Nr. Hebden Bridge, on dead stems of *Epilobium hirsutum* (Fl. Hx.). Cadeby (F.F. '01); on dead herbaceous stems.

N.W.—Masham ('Nat. Jan. '02).

2232. **Phoma projecta** Cke.

S.W.—Hardcastle, on decaying grass in swamp (Fl. Hx.).

2233. **Phoma longissimum** Berk.

S.W.—Common on dead stems of Umbelliferous plants, as cow-parsnip, sweet cicely, chervil, etc., about Halifax and Hebden Bridge (Fl. Hx.).

Mid W.—Harewood (F.F. '98).

2234. **Phoma glandicola** Lév.

S.W.—Hardcastle, etc., near Hebden Bridge, on the husks of germinating acorns, in linear-oblong pustules (Fl. Hx.).

APOSPHÆRIA Berk.

2235. **Aposphæria fibricola** (Berk.) Sacc.

N.E.—Scarboro', on dry chips.

NEOTTIOSPORA Desm.

2236. **Neottispora caricum** Desm.

N.E.—Scarboro', on dead *Carex ampullacea*.

SPHÆRONEMA Tode.

2237. **Sphæronema subulatum** Tode.

N.E.—Thirsk (*Nat. Nov. '82). On hard, blackened *Agarics*.

2238. **Sphæronema aemulans** B. & Br.

N.E.—Scarboro', on dead wood.

2239. **Sphæronema Fuckelianum** Sacc. [*Dothiora sphæroides* Fr.].

Mid W.—Selby (Lees' Fl.).

S.W.—Nab Wood, Saltaire (Lees' Fl.).

CONIOTHYRIUM Corda.

2240. **Coniothyrium glomeratum** Corda.

S.E.—Boynton (W.W.S.). On elm wood.

SPHÆROPSIS, B & Br.

2241. **Sphæropsis geniculata** B. & Br.

S.E.—Boynton (W.W.S.). On leaves of *Pinus strobus*.

2242. **Sphæropsis epitricha** B. & Br.

S.E.—Boynton (W.W.S.). On dead stems of *Equisetum*.

DIPLODIA Fr.

2243. **Diplodia ilicis** Curr.

N.E.—Mulgrave Woods (F.F. 1900). On holly leaves.

2244. **Diplodia sapinea** Fr.

N.E.—Terrington, on *Pinus* (Grev. xiv. p. 62).

2245. **Diplodia tiliæ** Fckl.

N.E.—Scarboro', on lime twigs.

S.W.—Nr. Hebden Bridge, on lime tree bark.

2246. **Diplodia hederæ** Fckl.

N.E.—Scarboro', on ivy.

2247. **Diplodia ligustri** West.

N.E.—Scarboro', on privet.

2248. **Diplodia taxi** De Not.

N.E.—Scarboro', on yew leaves.

2249. **Diplodia malorum** Curr.

N.E.—Bulmer; Scarboro', on fallen apples.

2250. **Diplodia smyrnii** Sacc.

N.E.—Castle Hill, Scarboro', on *Smyrnium*.

2251. **Diplodia vulgaris** Lév.

Mid W.—Bolton Woods ('Nat.' Aug. '81). On twigs.

2252. **Diplodia herbarum** Lév.

N.E.—Scarboro' ('Nat.' Aug. '81).

S.W.—Hebden Bridge, on nettle stems; Salterhebble and Lightcliffe, on cock's-foot grass; Coley, on decaying cabbage-stalks (Fl. Hx.).

ASCOCHYTA Lib.

2253. **Ascochyta aceris** Lib.

N.W.—Masham, on sycamore leaves ('Nat.' Jan. '02).

STAGANOSPORA Sacc.

2254. **Staganospora macropus** (B. & Br.) Sacc.

N.E.—Scarboro', on *Carex sp.*

CYTOSPORA Fr.

[CYTOSPORA ROSARUM.

N.E.—Scarboro', on dogrose.

Possibly an early condition of some *Valsa*.].

[CYTOSPORA NIVEA Fckl.

N.E.—Scarboro', on poplar.

Said to be one of the stages of *Valsa leucostoma*.].

HENDERSONIA Berk.

2255. **Hendersonia mutabilis** B. & Br.

S.W.—Nr. Hebden Bridge, on dead sycamore-twig (Fl. Hx.).

ASTEROMA DC.

2256. **Asteroma piri** Desm.

N.E.—Terrington, on pear leaves.

2257. **Asteroma rosæ** DC.

N.E.—Scarboro', on rose.

S.W.—Cadeby, on garden rose (F.F. '01).

SEPTORIA Fr.

2258. **Septoria junci** Desm.

N.E.—Terrington, on *Juncus* (Grev. xiv, p. 104).

2259. **Septoria ribis** Desm.

Mid W.—Boston Spa, on leaves of black-currant (Lees' Fl.).

2260. **Septoria graminum** Desm.

S.W.—Saltaire, on grass (Lees' Fl.).

2261. **Septoria hippocastani** B. & Br.

S.W.—? On horse chestnut leaves, common (Lees' Fl.).

2262. **Septoria rosarum** West.

N.E.—Helmsley, on living leaves of wild rose (F.F. '03).

2263. **Septoria rubi** Westend.

N.E.—Scarboro', on bramble.

2264. **Septoria virgaureæ** Desm.

N.E.—Scarboro', on *Solidago virgaurea.*

DILOPHOSPORA Desm.

2265. **Dilophospora graminis** Desm.

S.W.—Nr. Hebden Bridge, on grass leaves (Fl. Hx.).

2266. **Dilophospora albida** Mass. & Crossl.

S.W.—Hebden Bridge, on dead stems of *Epilobium hirsutum.* For diagnosis and remarks see (New Fungi, 'Nat.' Jan. '04).

VERMICULARIA.

2267. **Vermicularia dematium** Fr.

S.W.—Saltaire, on dead stems of herbaceous plants (Lees' Fl.). Elland Park Wood, nr. Hx., under similar conditions.

2268. **Vermicularia atramentaria** B. & Br.

N.E.—Bridlington ('Nat.' Aug. '81). Lythe, near Whitby, on dead potato-haulms (F.F. 1900).

S.W.—Newsholme Dean, nr. Keighley (Lees' Fl.). Elland Park Wood (Fl. Hx.). On dead potato-haulms.

2269. **Vermicularia trichella** Grev.

N.E.—Bulmer (Tr. iv.). Scarboro', on ivy leaves.

S.W.—Bingley, on dead leaves of ivy (Lees' Fl.). Cadeby, on dead leaves of ivy (F.F. '01).

CEUTHOSPORA Fr.

2270. **Ceuthospora lauri** Grev.

N.E.—Scarboro' ('Nat.' Aug. '81). On dead leaves of cherry-laurel.

[CEUTHOSPORA PHACIDIOIDES Grev.

S.W.—Haigh (* 'Nat.' Oct. '82). This is an imperfect condition of *Phacidium ilicis*].

NECTRIOIDACEÆ.

SPHÆRONEMELLA Karst.

2271. **Sphæronemella fimicola** Marchal.

S.W.—Nr. Sheffield, on rabbit dung ('Nat.' Ap. '02).

First collected in this country on rabbit dung, at Leith Hill, Surrey, in Feb. 1901 (Researches on Coprophilous Fungi. II., Mass. & Salm., Annals of Botany xvi. pp. 75-6, pl. iv. figs. 38-43).

LEPTOSTROMACEÆ.

LEPTOTHYRIUM Kze.

2272. **Leptothyrium ribis** Lib.

N.W—Masham, on fading leaves of *Ribes rubrum*—red currant ('Nat.' Jan. '02).

LEPTOSTROMA Fr.

2273. **Leptostroma spirææ** Fr.

N.E.—Scarboro' ('Nat.' Aug. '81).

MID W.—Malham, etc. (Lees' Fl.).

S.W.—Nr. Hebden Bridge (Fl. Hx.).

On dead stems of *Spiræa Ulmaria*.

LEPTOSTROMELLA Sacc.

2274. **Leptostromella juncina** Sacc.

S.W.—Hardcastle, on dead stems of *Juncus* (Fl. Hx.).

EXCIPULACEÆ.

EXCIPULA Fr.

2275. **Excipula petiolicola.**

N.E.—Scarboro', on petioles of lime leaves.

DINEMASPORIUM Lév.

2276. **Dinemasporium hispidulum** Sacc.

S.W.—Nr. Hebden Bridge, on wood. Accidentally omitted from Fl. Hx.

2277. **Dinemasporium graminum** Lév.

N.E.—Scarboro', on grass leaves.

Mid W.—Selby, on dead leaves of grass (Lees' Fl.). Harewood, on dead grass (F.F. '98).

S.W.—Nr. Hebden Bridge; Dudwell, Hx.; Elland Park Wood; etc., on dead grass (Fl. Hx.).

N.W.—Masham ('Nat.' Jan. '02).

Var. **herbarum** Cke.

Mid W.—Clapham, on dead stems of nettle (Lees' Fl.).

S.W.—Calverley (Lees' Fl.). Mytholmroyd; and nr. Hebden Bridge, on nettle and other herbaceous stems; Luddenden Dean, on dead broom and bracken; Shibden, on wood (Fl. Hx.).

N.W.—Masham, on dead plant-stems ('Nat.' Jan. '02).

2278. **Dinemasporium abjectum** Fckl.

S.W.—Nr. Hebden Bridge, like a black dust, on living leaves of *Veronica officinalis* (Fl. Hx.).

PILIDIUM Kze.

2279. **Pilidium acerinum** Kze.

S.W.—Saltaire, on dead leaves of sycamore (Lees' Fl.). Common on dead sycamore-leaves in the Halifax, Hebden Bridge, and intervening districts (Fl. Hx.).

N.W.—Masham ('Nat.' Jan. '02).

MELANCONIACEÆ.

GLŒOSPORIUM Desm.

2280. **Glœosporium concentricum** B. & Br.

N.E.—Bulmer, on cabbage leaves.

COLLETOTRICHUM Corda.

2281. **Colletotrichum lycopersici** Chester.

N.E.—Lythe, near Whitby, on garden-grown potato haulms (F.F. 1900, 'Nat.' Nov. p. 341: the first European record).

2282. **Colletotrichum lindemuthianum** Bri. & Cav.

N.E.—Scarboro', on green pods of scarlet runners and French beans, often a destructive parasite, contorting the young pods, and preventing the growth of the beans.

NÆMOSPORA Pers.

2283. **Næmospora croceæ** Pers.

N.E.—Scarboro' ('Nat.' Aug. '81). On beech trunks.

MELANCONIUM Link.

2284. **Melanconium elevatum** Corda.

N.E.—Langridge (Grev. xiv. June '86).

2285. **Melanconium bicolor** Nees.

N.E.—Scarboro', on hazel bark.

MARSONIA Fisch.

2286. **Marsonia populi** Sacc.

N.E.—Scarboro', on living poplar leaves.

STILBOSPORA Pers.

[STILBOSPORA MACROSPERMA Pers.

N.E.—Scarboro', on oak twigs.

S.W.—Saltaire, on oak twigs (Lees' Fl.).

The stylosporous fruit of *Sphæria (Massaria) inquinans* Cke. Hdbk. i. p. 468].

CORYNEUM Nees.

2287. **Coryneum compactum** B. & Br.

N.E.—Scarboro', on elm twigs.

2288. **Coryneum disciforme** Kze.

S.W.—Saltaire, on birch twigs (Lees' Fl.).

2289. **Coryneum Kunzei** Corda.

N.E.—Scarboro', on oak twigs.

PESTALOZZIA De Not.

2290. **Pestalozzia lignicola** Cke.

S.W.—Saltaire; Shipley Glen; on wood ('Nat'. Aug. '81).

ASTEROSPORIUM Kze.

2291. **Asterosporium Hoffmanni** M. & N.

N.E.—Scarboro' ('Nat.' Aug. '81). On beech twigs.

STEGANOSPORIUM Corda.

2292. **Steganosporium cellulosum** Corda.

N.E.—Scarboro', on bark of lime tree.

LIBERTELLA Desm.

2293.—**Libertella rosea** Desm.

Yorks.—Locality ?

2294. **Libertella pallida.**

N.E.—Stokesley (Exc. '99).

2295. **Libertella fusispora** Mass & Crossl.

S.W.—Nr. Hebden Bridge, on rotting, cloth-tab hearthrug: oozing out in very delicate agglutinated tendrils composed of minute, fusiform conidia (Fl. Hx.).

HYPHOMYCETES.

MUCEDINACEÆ.

CHROMOSPORIEÆ Sacc.

CHROMOSPORIUM Corda.

2296. **Chromosporium aureum** Sacc.

S.W.—Nr. Hebden Bridge, on rotting, cast-out hearthrug, 1897 (Fl. Hx.; First British record).

MICROSTROMA Niessl.

2297. **Microstroma album** Sacc.

N.E.—Scarboro', on dying oak-leaves.

OOSPOREÆ Sacc.

OOSPORA Wallr. emend.

2298. **Oospora coccinea** (Corda) Sacc.

S.W.—Halifax, on cat dung in a warehouse, Feb. '99 (Fl. Hx.). For revised diagnosis of these—the first British specimens, see (New and Critical British Fungi, Crossl., 'Nat.' Jan. 1900, pp. 8-9).

2299. **Oospora crustacea** Sacc. [*Torula sporendonema* B. & Br.].

S.W.—Liversedge Vicarage, on cheese (Tr. ix.). Nr. Hebden Bridge, on decaying cloth-tab hearthrug (Fl. Hx.).

N.E.—Scarboro' ('Nat.' Aug. '81). On cheese.

Mid W.—Micklefield (Tr. ix.).

FUSIDIUM Link.

2300. **Fusidium viride** Grove.

N.E.—Scarboro', on dead stems of foxglove.

S.W.—Elland Park Wood, on old petioles of *Petasites vulgaris*—butterbur (Fl. Hx.).

2301. **Fusidium griseum** Link.

S.W.—Potridings Wood, on dead oak-leaves (F.F. '01).

MONILIA Pers. emend.

2302. **Monilia aurea** Genel.

N.E.—Bulmer. Scarboro', on mosses.

S.W.—Kiveton Park (T. Gibbs).

N.W.—Swinton, near Masham, on moss in saw-mill yard ('Nat.' Jan. '02). Rokeby (F.F. '04).

(Mass. Brit. Fung. Fl. iii. p. 283, fig. 2, p. 274).

2303. **Monilia fructigena** Pers.

N.E.—Scarboro', on apples, plums, and cherries. A very destructive parasite, growing first on the leaves and passing to the fruit. One of the commonest and most widely distributed moulds against which the fruit grower has to contend (Mass. Text-Book of Plant Diseases, pp. 300-2, fig. 79).

2304. **Monilia cæspitosa** Purton. [*Mucor cæspitosa* Hend.; *Monilia racemosa* Sacc. Syl., iv. n. 163].

S.W.—Halifax, on rotting substances (Bolton, Tab. 132, f. 2).

CYLINDRIUM Bon.

2305. **Cylindrium Cordæ** Sacc.

S.W.—Nr. Hebden Bridge, on dead oak-leaves (Fl. Hx.).

2306. **Cylindrium flavo-virens** Bon.

S.W.—Melton (F.F. '01). Elland Park Wood (Fl. Hx.).

N.W.—Masham ('Nat.' Jan. '02). Rokeby (F.F. '04).

N.E.—Scarboro', on dead oak-leaves. Egton Bridge (F.F. '02).

On fallen leaves of oak, beech, etc.; commonest on oak.

OIDIUM Link.

[OIDIUM LEUCOCONIUM Desm.

Common on the stems, leaves, and calyces, of cultivated and wild roses. The conidial condition of *Sphærotheca pannosa*].

[OIDIUM MONILIOIDES Link.

S.W.—Elland; and near Hebden Bridge (Fl. Hx.).

N.E.—Castle Howard (*'Nat.' June '80).

N.W.—Masham ('Nat.' May '03).

On the living leaves and culms of various grasses. The conidial condition of *Erysiphe graminis*].

CEPHALOSPORIEÆ.

ŒDOCEPHALUM Preuss.

2307. **Œdocephalum glomerulosum** (Bull.) Sacc.

N.E.—Mulgrave Woods, on horse dung (F.F. 1900).

(Researches on Coprophilous Fungi II., Mass. & Salm., Annals of Bot. xvi. (1902) p. 80, pl. v. fig. 119).

RHOPALOMYCES Corda.

2308. **Rhopalomyces candidus** B. & Br.

N.E.—Scarboro', on rotten leaves.

S.W.—Potridings Wood, on decaying herb. stems (F.F.'01).

BOTRYOSPORIUM Corda.

2309. **Botryosporium diffusum** Corda.

S.W.—Saltaire, on decaying potato plants (Lees' Fl.).

N.E.—Egton Bridge (F.F. '02).

2310. **Botryosporium pulchrum** Corda.

Mid W.—Leeds, on herbs (Lees' Fl.). Harewood.

N.E.—Mulgrave Woods (F.F. 1900).

S.W.—Melton (F.F.' 01). Halifax, in garden (Lees' Fl.). Bingley (Fl. Skipt.).

N.W.—Masham ('Nat.' Jan. '02).

S.E.—Hessle, 1902 (Hull S. & F.N.C.).

On decaying herbaceous stems: not uncommon.

CEPHALOSPORIUM Corda.

2311. **Cephalosporium acremonium** Corda.

N.E.—Scarboro', on stems of *Rubus*, *Heracleum*, etc. (Grev. xvi. Dec. '87, p. 59; Mass. Brit. Fung. Fl. iii. p. 292, fig. 23, p. 274).

N.W.—Masham, on dead rush-stems ('Nat.' May '03).

GLIOCLADIUM Corda.

2312. **Gliocladium lignicolum** Grove.

Mid W.—East Keswick, on wood (F.F. '98).

TRICHODERMA Pers. emend.

[Trichoderma lignorum Harz. (*T. viride* Pers.).

Common on the cut surface of damp wood; also on bark, rotten leaves, etc. The conidial condition of *Hypocrea rufa*].

CORETHROPSIS Corda.

This genus was omitted by mistake in Brit. Fung. Fl. iii.

2313. **Corethropsis paradoxa** Corda.

N.E.—Scarboro' (Jour. Micr. Soc. Oct. '85).

2314. **Corethropsis epimyces** Mass.

N.E.—Scarboro' (Jour. Micr. Soc. Oct. '85).

ASPERGILLEÆ.

ASPERGILLUS Mich.

[ASPERGILLUS GLAUCUS Link.

Common; grows on all kinds of decaying organic substances. The conidial condition of *Eurotium herbariorum*].

2315. **Aspergillus virens** Link.

S.W.—Bingley Wood, on decaying *Boleti* (Lees' Fl.). Elland Park Wood, on rotting leaves (Fl. Hx.).

2316. **Aspergillus candidus** Link.

N.E.—Scarboro' ('Nat.' Aug. '81).

S.W.—Bradford, on old clothes (Lees' Fl.). Bingley (Fl. Skipt.). Wooldale, Thongsbridge, among prothalli of ferns in greenhouse, Nov. 1900 (C. H. Broadhead). North Dean Wood on dead *Agaric*, and on the slime fungus—*Arcyria cinerea* (Fl. Hx.).

N.W.—Masham, on decayed leaves ('Nat.' May '03).

2317. **Aspergillus flavus** Link.

S.W.—Halifax, on decaying wood-work, in warehouse.

2318. **Aspergillus nigricans** Cke.

S.E.—Market Weighton, on the *meatus auditorius* of human ear, Dec. '97 (J. J. Marshall).

The record of this sp. in 'Nat.' June '94 for Halifax, on dried onion, is doubtful.

PENICILLIUM Link.

2319. **Penicillium glaucum** Link.

Common; on fruit, leaves, and on almost every kind of decaying or damp organic matter (Mass. Brit. Fung. Fl. iii. pp. 299-300, fig. 22, p. 274). Has also been found at Hx. forming a felt on the surface of the liquid in a dye vat (Fl. Hx.) Recorded for all the county divisions with the exception of S.E.

Var. **coremium** Sacc.

S.W.—Askern, on rabbit dung (*'Nat.' Oct. '93).

2320. **Penicillium candidum** Link.

S.W.—Melton (F.F. '01). Nr. Hebden Bridge, on rotting wicker skip; not uncommon in woods on decaying leaves, fungi, etc. (Fl. Hx.).

2321. **Penicillium bicolor** Fr.

S.W.—Elland, on the husks of germinating acorn (Fl. Hx.).

BRIAREA Corda.

2322. **Briarea elegans** Corda.

S.W.—Saltaire, on decaying grass.

BOTRYTIDEÆ.

HAPLARIA.

2323. **Haplaria grisea** Link.

Mid W.—Leeds, on decaying vegetables (Lees' Fl.).

S.W.—Bolton, near Bradford (Lees' Fl.).

ACREMONIUM Link.

2324. **Acremonium alternatum** Link.

S.W.—Southowram, on dead leaves (Fl. Hx.).

The conidia are at first involved in mucus, and are then globose, but at maturity the mucus disappears and the true form is seen (Mass. Brit. Fung. Fl. iii. p. 305, fig. 32, p. 313).

2325. **Acremonium verticillatum** Link.

S.W.—Elland, on dead stump (Fl. Hx.).

RHINOTRICHUM Corda.

2326. **Rhinotrichum repens** Preus.

N.E.—Scarboro', on rotten wood.

S.W.—Fixby, on dead stump (F.F. '95), and (Fl. Hx.).

2327. **Rhinotrichum niveum** Cke. & Mass.

Mid. W.—East Keswick, on dead wood (F.F. '98).

2328. **Rhinotrichum lanosum** Cke.

S.W.—Saltaire, on wall paper (Lees' Fl.).

2329. **Rhinotrichum aureum** Cke. & Mass.

N.E.—Scarboro', on rotten *Agaric.*

SPOROTRICHUM Link.

2330. **Sporotrichum læticolor** Cke. & Mass.

S.W.—Catty Well, Warley, on the bark of a decaying

stump, Sep. '91 (Grev. xx. p. 38; Fl. Hx.). Omitted by oversight from Mass. Brit. Fung. Fl. iii.

2331. **Sporotrichum sulphureum** Grev.

S.W.—Halifax, on old baskets, and corks in damp cellar (Fl. Hx.).

2332. **Sporotrichum chlorinum** Link.

N.E.—Scarboro' ('Nat.' Aug. '81), on fallen oak-leaves.

S.W.—Elland, on damp wood ('Nat.' June '94; Fl. Hx.).

BOTRYTIS Mich. emend.

2333. **Botrytis virella** Fr.

S.W.—Skircoat, on dead furze; and North Dean Wood, on damp wood (Fl. Hx.).

2334. **Botrytis Tilletii** Desm.

Mid W.—Leeds, on leaves, etc. (Lees' Fl.).

2335. **Botrytis vulgaris** Fr. [*Polyactis.* Link.].

N.E.—Scarboro' ('Nat.' Aug. '81). Egton Bridge (F.F.'02).

S.W.—Cadeby; Melton; and Warmsworth (F.F. '01). Common on decaying leaves, flowers, fruits, herbaceous stems, wood, etc., in woods, gardens, greenhouses, and other places in the Halifax; Hebden Bridge; and intervening districts.

Var. **plebeja** Fres.

S.W.—Hebden Bridge, on dead oak cotyledon (Fl. Hx.).

2336. **Botrytis cana** Kze. & Schm. [*Polyactis.* Berk.].

N.E.—Scarboro' ('Nat.' Aug. '81).

Mid W.—Micklefield (F.F. '81). Leeds (Lees' Fl.).

S.W.—Saltaire (Lees' Fl.). Lightcliffe, on sycamore bark (Fl. Hx.). On dead leaves of various plants.

2337. **Botrytis vera** Fr. [*Mucor botrytis* Bolt.; *Polyactis vera* Berk.; etc.].

S.W.—Halifax, 1789. "It grew between the imbricated lobes of a large decaying plant of *Boletus* (*Polyporus*) *versicolor*" (Bolton, Tab. 132, f. 3).

2338. **Botrytis cinerea** Pers. [*Polyactis.* Berk.].

Mid W.—Church Fenton (Lees' Fl.). Bolton Woods.

S.W.—Bradford (Lees' Fl.). Elland, on rotten wood; Hebden Bridge, on rotting turnip; North Dean Wood, on

decaying *Agaric;* Rishworth, on living moss—*Catherinea crispa* —stream side (Fl. Hx., but not in the foregoing detail).

N.W.—Masham, on decaying leaves ('Nat.' Jan. '02).

N.E.—Mulgrave Woods (Tr. B.M.S. '05).

Var. **sclerotiophila** Sacc.

S.W.—Hebden Bridge, several places; Elland, etc., growing from sclerotia formed on decaying herbaceous stems, mostly of the *Umbelliferæ*, in woods (Fl. Hx.). Sheffield.

Mid W.—Askham Bog (Exc. 1900). East Keswick (F.F. '98), on *Umbellifer* stems.

S.E.—Hornsea, on dead stem (Exc. 1900).

N.W.—Masham, on dead stems of some *Umbelliferous* plant ('Nat.' Jan. '02).

2339. **Botrytis fasciculariis** Sacc. [*Polyactis*. Corda].

Common on a great variety of decaying plants. Records numerous.

OVULARIA Sacc.

2340. **Ovularia lychnicola** Mass. [*Ramularia*. Cke.].

N.E.—Scarboro', on living leaves of *Lychnis*.

2341. **Ovularia lapsanæ** Mass. [*Ramularia*. Sacc.].

Mid W.—Malham, on the under surface of living leaves of *Lapsana communis*—nipplewort.

2342. **Ovularia armoraciæ** Mass. [*Ramularia*. Fckl.].

N.E.—Scarboro', on living leaves of horseradish. A parasite sometimes doing considerable injury.

2343. **Ovularia obliqua** Oud. [*Peronospora*. Cke.].

Common on fading leaves of *Rumex. sp.* Was found at Hardcastle—S.W.—July '92, on *Polygonum Bistorta*. Said to be the conidial stage of *Sphærella rumicis*.

SEPEDONIUM Link.

[Sepedonium chrysospermum Fr.

Very common on decaying fungi, *Boleti*, *Agarici*, etc. Probably a true parasite, attacking the fungus early and arresting its development. The conidial condition of *Hypomyces chrysospermus*].

(Mass. Brit. Fung. Fl. iii. p. 325, fig. 25, p. 313).

VERTICILLIEÆ.

VERTICILLIUM Nees.

2344. **Verticillium candelabrum** Bon.

S.W.—Goitstock, on rotten wood.

2345. **Verticillium agaricinum** Corda.

N.W.—Masham, on decayed *Agaric.*

Possibly the conidial condition of some *Hypomyces.*

2346. **Verticillium epimyces** B. & Br.

N.E.—Scarboro', on various species of decaying fungi.

2347. **Verticillium lateritium** Berk.

S.W.—Elland, on decaying butterbur (Fl. Hx.). Sheffield, on rabbit dung ('Nat.' Ap. '02).

N.W.—Masham, on decaying herb. stem ('Nat.' Jan. '02).

ACROSTALAGMUS Corda.

2348. **Acrostalagmus cinnabarinus** Corda.

N.E.—Scarboro', on rotten leaves.

S.W.—Bradford, on old leather (Lees' Fl.).

MID W.—Leeds, on decayed plants (Lees' Fl.).

(Mass. Brit. Fung. Fl. iii. p. 331, figs. 6-7, p. 358).

GONATOBOTRYDEÆ.

GONATOBOTRYS Corda.

2349. **Gonatobotrys simplex** Corda.

N.E.—Scarboro' (Jour. Micr. Soc. Oct. '85).

On decaying fruit of *Tamus;* on hawthorn branches; on old perithecia of Valsa; etc. (Mass. Brit. Fung. Fl. iii. p. 333).

NEMATOGONIUM Desm.

2350. **Nematogonium aurantiacum** Desm.

S.E.—Hollokill Wood, Boynton (W.W.S.).

S.W.—Steeton, on wood in a timber yard.

(Mass., Brit. Fung. Fl. iii. p. 333, fig. 12, p. 274).

DIPLOCLADIUM Bon.

2251. **Diplocladium macrosporum** (Fr.) Mass.

S.W.—Melton (F.F. '01). On bark, moss, etc.

DIPLOSPORIUM Bon.

2352. **Diplosporium album** Bon.

S.W.—Cadeby, on decaying herb. stems (F.F. '01).

(Mass. Brit. Fung. Fl. iii. p. 336, fig. 15, p. 274).

TRICHOTHECIUM Link.

2353. **Trichothecium roseum** Link. [*Dactylium*, Berk.].

S.W.—Steeton, on wood (Lees' Fl.). Elland; Hebden Bridge; Halifax; on various decaying substances, as leaves, fruit, bark, paper, cheese, old rope, etc. (Fl. Hx.). Potridings Wood, on decaying twig (F.F. '01).

2354. **Trichothecium candidum** Wallr.

S.W.—Hebden Bridge, on rotting wicker skip (Fl. Hx.).

2355. **Trichothecium obovatum** (Berk.) Sacc.

S.W.—Halifax, on old wicker basket in damp warehouse, and on basket-lid in garden corner (Fl. Hx.).

CEPHALOTHECIUM Corda.

2356. **Cephalothecium candidum** Bon.

S.W.—Erringden (Fl. Hx.).

N.W.—Masham, on rotting bark ('Nat.' May '03).

ARTHROBOTRYS Corda.

2357. **Arthrobotrys rosea** Mass., Jour. Roy. Micr. Soc., v. p. 758, pl. 13, figs. 6-7.

N.E.—Scarboro', on rotten branch (Grev. xvi.).

S.W.—Hebden Bridge, on rotten twigs (Fl. Hx.).

2358. **Arthrobotrys superba** Corda.

S.W.—Sheffield, on horse dung. First British record by T. Gibbs ('Nat.' Ap. '02).

BOSTRICHONEMA Ces.

2359. **Bostrichonema alpestre** Ces.

S.W.—Nr. Hebden Bridge, on living leaves of *Polygonum Bistorta* (Fl. Hx.).

DACTYLIEÆ.

DACTYLIUM Nees.

2360. **Dactylium dendroides** Fr.

S.W.—Southowram, on *Polystictus versicolor* (Fl. Hx.).

N.W.—Masham, on the gills of living *Cantharellus aurantiacus* and other *Agarics* ('Nat.' Jan. '02).

MUCROSPORIUM Preuss.

2361. **Mucrosporium sphærocephalum** (Berk.) Sacc.

N.E.—Scarboro' ('Nat.' Aug. '81). On dead wood. (Mass. Brit. Fung. Fl. iii., p. 342, fig. 3, p. 313).

RAMULARIEÆ.

RAMULARIA Sacc.

2362. **Ramularia hellebori** Fckl.

YORKS.—Locality? H.T.S. '84 (Grev. xiii. p. 51).

N.E.—Ayton, on *Helleborus viridis.*

2363. **Ramularia geranii** Fckl.

MID W.—Malham, on the under surface of *Geranium pratense* (Fl. Skipt.).

2364. **Ramularia calcea** Ces.

S.W.—Stainborough (F.F.'97). Potridings Wood (F.F.'01).

N.E.—Egton Bridge (F.F. '02).

On the leaves of *Nepeta Glechoma*—ground ivy.

2365. **Ramularia urticæ** Ces.

MID W.—Malham, on leaves of nettle (Fl. Skipt.).

MILOWIEÆ.

MILOWIA Mass.

2366. **Milowia nivea** Mass., Journ. Roy. Micr. Soc., v. p. 758, pl. 13.

N.E.—Scarboro', on dead leaves of *Blysmus compressus.*

This was the type of the genus *Milowia.*

SEPTOCYLINDRIEÆ.

SEPTOCYLINDRIUM Bon.

2367. **Septocylindrium concentricum** B. & Br.

S.W.—Ingrow, on nettles, leaves, etc. (Lees' Fl.).

MID W.—Gilstead (Lees' Fl.).

HELICOMYCES Link.

2368. **Helicomyces tubulosus** Riess.

N.E.—Scarboro', on rotten wood.

DEMATIACEÆ.

TORULEÆ.

TORULA Pers.

2369. **Torula monilioides** Corda.

S.W.—Potridings Wood (F.F. '01); on rotten wood.

2370. **Torula pulveracea** Corda.

N.E.—Scarboro' ('Nat.' Aug. '81).

MID W.—Micklefield (F.F. '81). On dead branches.

S.W.—Steeton, on wood (Lees' Fl.).

S.E.—Pond Wood, Boynton (W.W.S.).

2371. **Torula antennata** Pers.

N.E.—Scarboro', on rotten wood.

2372. **Torula ovalispora** Berk.

N.E.—Scarboro', on rotten wood.

Mid W.—Leeds, on wood, frequent (Lees' Fl.).

2373. **Torula herbarum** Link.

Common; on decaying stems of various plants. Distribution general. Records numerous.

2374. **Torula graminis** Desm.

S.W.—Saltaire, on dead leaves of grass (Lees' Fl.). Near Hebden Bridge, on decaying grass (Fl. Hx.).

ECHINOBOTRYEÆ.

ECHINOBOTRYUM Corda.

2375. **Echinobotryum atrum** Corda.

S.W.—Potridings Wood, parasitic on *Pilaira* growing on rabbit dung (F.F. '01).

(Mass. Brit. Fung. Fl. iii. pp. 365-6, fig. 12, p. 313).

TRICHOSPORIUM Fr.

2376. **Trichosporium fuscum** Sacc.

S.W.—Potridings Wood (F.F. '01). On rotten bark of pine and other trees; often associated with *Rosellinia aquila*.

N.E.—Mulgrave Woods (Tr. B.M.S. '05).

(Mass. Brit. Fung. Fl. iii. p. 367, fig. 25, p. 358).

2377. **Trichosporium inosculans** Sacc. [*Sporotrichum inosculans* Berk.].

N.E.—Scarboro' ('Nat.' Aug. '81; Grev. xvi. p. 98).

On dead *Thelephora* and other fungi.

2378. **Trichosporium murinum** Sacc.

S.W.—Steeton on dead wood (Jour. Bot. July '86).

PERICONIEÆ.

STACHYBOTRYS Corda.

2379. **Stachybotrys atra** Corda.

N.E.—Scarboro' ('Nat.' Aug. '81; Grev. xvi. p. 98).

On damp paper, damp walls, rotting wood, etc.

2380. **Stachybotrys dichroa** Grove.

S.W.—Hebden Bridge, on dead *Epilobium hirsutum* (Fl. Hx.).

PERICONIA Bon.

2381. **Periconia byssoides** Pers.

S.W.—Hebden Bridge, on dead stems of *Epilobium hirsutum*, along with the preceding sp. *S. dichroa* (Fl. Hx.).

2382. **Periconia atra** Corda.

S.W.—Bingley (Fl. Skipt.). On culms of grass, dead herbaceous stems, etc.

(Mass. Brit. Fung. Fl. iii. p. 370, fig. 14, p. 358).

2383. **Periconia nigrella** Sacc. [*Sporocybe*. Berk.

N.E.—Glaisdale, on dead sedge (W.W.S.).

2384. **Periconia podospora** Corda.

N.E.—Mulgrave Woods (F.F. 1900). Stokesley (Exc. '99).

ARTHRINEÆ.

GONIOSPORIUM Link.

2385. **Goniosporium puccinioides** Link.

S.W.—Saltaire, on dead stems of *Carex glauca* (Lees' Fl.).

Mid W.—Bolton Abbey, on dead leaves of *Carex* (Fl. Skipt.).

TRICHOSPORIEÆ.

ZYGODESMUS Corda.

2386. **Zygodesmus fuscus** Corda.

N.E.—Scarboro' ('Nat.' Aug. '81; Grev. xvi. p. 98). Mulgrave Woods (Tr. B.M.S. '05).

On rotten wood, branches, etc.

MONOTOSPOREÆ.

MONOTOSPORA Corda.

2387. **Monotospora sphærocephala** B. & Br.

S.W.—Skircoat, Halifax, on old bone; Elland Park Wood, on bark of *Sambucus nigra*—elder. (Fl. Hx.).

2388. **Monotospora pumila** Sacc. [*Helminthosporium pumilum*, Mass., Jour. Roy. Micr. Soc. v. p. 758., pl. 13., figs. [4-5].

N.E.—Scarboro' (Grev. xvi. p. 99.).

S.W.—Stanelly Clough, Stansfield; Hebden Bridge (Fl. Hx.).

Parasitic on another mould = *Graphium flexuosum*.

2389. **Monotospora megalospora** B. & Br.

N.E.—Scarboro' (Grev. xvi. p. 98.). On bark of yew.

S.W.—North Dean Wood, on rotten wood (Fl. Hx.).

HAPLOGRAPHIEÆ.

HAPLOGRAPHIUM B. & Br.

2390. **Haplographium delicatulum** B. & Br.

N.E.—Scarboro', on dead wood.

2391. **Haplographium bicolor** Grove.

N.E.—Mulgrave Woods (F.F. 1900). On decayed wood.

STACHYLIDIEÆ.

STACHYLIDIUM Link.

2392. **Stachylidium cyclosporum** Grove.

S.W.—Walter Clough, Southowram, on dead bramble; Elland Wood, on rotting wood, and on *Carex;* Salterhebble, on dead *Rumex*—dock (Fl. Hx.).

(Mass. Brit. Fung. Fl. iii. p. 387, fig. 36, p. 358.).

2393. **Stachylidium extorre** Sacc.

S.W.—Elland Park Wood, on dead butterbur (Fl. Hx.).

BISPOREÆ.

[BISPORA MONILIOIDES Corda.

N.E.—Bulmer, Scarboro'. Arncliffe Woods, on dead wood with the supposed ascigerous condition (F.F. '02).

MID W.—Malham ('Nat.' Aug. '81). Studley Royal '81).

S.W.—Fixby Park, on sawn surface of beech stump, with the supposed ascigerous stage (A. Clarke); Elland Park Wood; Crom-well Wood, Southowram (Fl. Hx.). Stainboro' (F.F. '97).

N.W.—Rokeby (F.F. '04).

According to Fuckel this is the conidial stage of *Bisporella monilifera* = *Helotium moniliferum*, but not proved by means of cultures.].

CLADOSPORIEÆ.

FUSICLADIUM Bon.

2394. **Fusicladium dendriticum** Fckl.

MID W.—Gilstead, near Bingley, on apple trees, July '03 (J. E. Sutcliffe). "The most injurious of fungus parasites attacking the apple, in many instances rendering unsaleable

half or more of the entire crop, in addition to doing permanent injury to the trees . . . . (Mass. Text-Book of Plant Diseases, pp. 302-304, fig. 80).

2395. **Fusicladium depressum** B. & Br. [*Cladosporium depressum* B. & Br., Ann. Nat. Hist., n. 514, t. v. f. 8].

Mid W.—Malham, on the under surface of living leaves of *Angelica sylvestris* (Lees' Fl.).

POLYTHRINCIUM Kze. and Schm.

2396. **Polythrincium trifolii** Kze.

N.E.—Scarboro', on living clover leaves.

S.W.—Hebden Bridge, on living leaves of *Trifolium repens*—white clover ('Nat.' June '94). Crimsworth Dean, nr. Hebden Bridge (Fl. Hx.). Huddersfield (F.F. '95).

N.W.—Masham, on fading clover leaves ('Nat.' Jan. '02).

CLADOSPORIUM Link.

2397. **Cladosporium epiphyllum** Mart.

N.E.—Scarboro' ('Nat.' Aug. '81). Mulgrave (1900).

S.W.—Shipley Glen, on fallen leaves (Lees' Fl.). Bingley (Fl. Skipt.). Hebden Bridge, on the under surface of sycamore leaves (Fl. Hx.).

S.E.—Boynton, on leaves of poplar and oak.

(Mass. Text-Book Plant Diseases, 306-310, fig. 82).

2398. **Cladosporium fulvum** Cke. [*Cladosporium lycopersici* Plow.].

Mid W.—Harewood (F.F. '98). Gilstead, on tomato leaves and stems, July '03 (J. E. Sutcliffe). "Often proves destructive to tomatoes . . . especially where the plant is grown under glass . . . " (Mass. Text-Book of Plant Diseases, pp. 311-313, fig. 83).

2399. **Cladosporium lignicolum** Corda.

S.W.—Newsholme Dean, on dead wood (Lees' Fl.).

2400. **Cladosporium brachormium** B. & Br.

S.W.—Knottingley, on *Fumaria officinalis*, Oct. '93.

2401. **Cladosporium herbarum** Link.

A very common mould, occurs on every portion of decaying herbaceous plants, on other fungi, wood, moist paper, cardboard, etc.

CLASTEROSPORIEÆ.

CLASTEROSPORIUM Schw.

2402. **Clasterosporium fungorum** Sacc. [*Sporidesmium atrum* Grev.].

S.W.—Steeton (Lees' Fl.). On various sp. of *Corticium*, etc.

2403. **Clasterosporium abruptum** Sacc. [*Sporidesmium abruptum* B. & Br.].

S.W.—Steeton, on dead wood (Lees' Fl.).

SEPTONEMEÆ.

SEPTONEMA Corda.

2404. **Septonema spilomeum** Berk.

S.W.—Saltaire, on fir-wood (Lees' Fl.).

HELMINTHOSPORIEÆ.

HELMINTHOSPORIUM Sacc.

2405. **Helminthosporium velutinum** Link.

N.E.—Scarboro', on rotten wood.

S.E—Boynton (W.W.S.). On rotten wood.

2406. **Helminthosporium macrocarpum** Grev.

N.E.—Scarboro' (Tr. iv.). On branches and trunks of various trees, *Quercus*, *Fraxinus*, *Ulmus*, *Corylus*, *Acer*, etc.

S.W.—Saltaire, on wood (Lees' Fl.).

2407. **Helminthosporium apiculatum** Corda.

S.W.—Hebden Bridge, on decaying grass ('Nat.' June '94).

2408. **Helminthosporium folliculatum** Corda.

N.E.—Scarboro' (Tr. i. & ix.). On rotten wood.

S.W.—Saltaire, on cabbage-stalks (Lees' Fl.). Ingrow (Fl. Skipt.). Hardcastle, on dead stems of cow parsnep; Dudwell, Halifax, on dead cabbage-stalks (Fl. Hx.).

2409. **Helminthosporium dendroideum** B. & Br.

N.W.—Masham, on dead twig ('Nat.' May '03).

2410. **Helminthosporium Smithii** B. & Br.

N.W.—Rokeby, on decaying beech-mast (F.F. '04).

2411. **Helminthosporium rhopaloides** Fres.

S.W.—Copley, and Salterhebble, near Hx., on decaying cabbage-stalks; near Hebden Bridge, on dead stems of nettle and willow-herb; Walter Clough, Southowram, on dead thistle (Fl. Hx.).

BRACHYSPORIUM Sacc.

2412. **Brachysporium stemphylioides** Sacc. [*Helminthosporium* Corda.].

N.E.—Scarboro' ('Nat.' Aug. '81; Grev. xvi. p. 108).

S.W.—Hebden Bridge (Fl. Hx.). On dead wood.

2413. **Brachysporium oosporum** (Corda.) Sacc.

S.W.—Elland Park Wood ('Nat.' June '04); Cromwell Wood, Southowram; (Fl. Hx.). On decaying branches.

2414. **Brachysporium apicale** Sacc. [*Helminthosporium apicale* B. & Br.].

MID W.—Esholt, on rotten wood (Lees' Fl.).

N.W.—Rokeby, on rotting branch (F.F. '04).

2415. **Brachysporium obovatum** Sacc. [*Helminthosporium obovatum* Berk.].

N.E.—Scarboro' ('Nat.' Aug. '81; Grev. xvi. p. 109).

S.E.—Low Wood, Boynton (W.W.S.).

S.W.—Nr. Hebden Bridge ('Nat.' June '94); Elland Park Wood, in smutty, elongated patches on wood; Crag Vale, on rotting orange peel (Fl. Hx.).

N.W.—Rokeby, on rotting beech-mast (F.F. '04).

2416. **Brachysporium tingens** (Cke.) Sacc.

S.W.—Elland Park Wood, on rotten wood (Fl. Hx.).

CERCOSPORA Fres.

2417. **Cercospora mercurialis** Pass.

N.E.—Scarboro', on dying leaves of *Mercurialis*.

HETEROSPORIUM Klotsch.

2418. **Heterosporium echinulatum** Cke.

N.E.—Scarboro', on cultivated pinks.

2419. **Heterosporium epimyces** Cke. & Mass.

S.E.—Blackwood, nr. Selby (F.F. '96).

S.W.—Luddenden Dean, on dead fleshy fungi (Fl. Hx.).

DENDRYPHIEÆ.

DENDRYPHIUM Wallr.

2420. **Dendryphium comosum** Wallr.

N.E.—Scarboro', on dead nettle-stems.

2421. **Dendryphium curtum** B. & Br.

S.W.—Askern, on dead nettle-stems, Aug. '98 (H.T.S.).

SPORODESMIUM Link.

2422. **Sporodesmium pyriforme** Corda.

S.W.—Saltaire, on wood (Lees' Fl.).

N.E.—Mulgrave Woods, on rabbit dung (Researches on Coprophilous Fungi: Mass. & Salm. II. Annals Bot. xvi. pp. 85-6, pl. iv. fig. 52).

CONIOTHECIUM Corda.

2423. **Coniothecium effusum** Corda. [*Sporodesmium leprarıa* Berk.].

S.W.—Steeton, on wood in timber yard (Lees' Fl.). Hebden Bridge, on bark and wood (Fl. Hx.).

2424. **Coniothecium conglutinatum** Corda.

S.W.—Hardcastle, on sycamore leaves ('Nat.' June '94).

2425. **Coniothecium viticolum** Cke. & Mass.

S.W.—Keighley, on dead vine-leaves in a greenhouse (J.E.S.). (Mass. Brit. Fung. Fl. iii. p. 428, fig. 14, p. 397).

STEMPHYLIUM Wallr.

2426. **Stemphylium alternariæ** Sacc. [*Sporodesmium alternariæ* Cke.].

S.W.—Bradford, on moist paper (Lees' Fl.).

MACROSPORIUM Fr.

2427. **Macrosporium tomato** Cke.

S.W.—Heath, Halifax, on ripe tomatoes in greenhouse (Fl. Hx.). "This disease appears to be present wherever the tomato is cultivated. The fruit is most frequently attacked, but the fungus is also often present on the stems and leaves" (Mass. Text-Book of Plant Diseases, pp. 324-5, f. 89).

HELICOSPORIUM Nees.

2428. **Helicosporium Mülleri** Sacc.

N.E.—Mulgrave Woods (F.F. 1900). On rotten wood. (Mass. Brit. Fung. Fl. iii. p. 349, fig. 10, p. 397).

2429. **Helicosporium viride** Sacc. [*Helicocoryne viridis* Corda.]. S.W.—Steeton, on dead wood (Lees' Fl.).

STILBACEÆ.

HYALOSTILBEÆ.

STILBUM Tode.

2430. **Stilbum tomentosum** Schrad.

N.E.—Scarboro' (Tr. iv.; Grev. xvii. p. 8). Mulgrave.

Mid W.—Harrogate; Esholt (Lees' Fl.). Bolton Wds.

S.W.—Saltaire ('Nat.' Aug. '81). Ingrow (Lees' Fl.). Hugsett (F.F. '97). Bingley (Fl. Skipt.). Melton Wood (F.F. '01). Hardcastle, '92; Elland Park Wood (Fl. Hx.).

N.W.—Masham ('Nat.' Jan. '02). Brignall (F.F. '04).

Parasitic on various species of Myxomycetes, more particularly the genus *Trichia*.

2431. **Stilbum erythrocephalum** Ditm.

N.E.—Scarboro' (Tr. ix.; Grev. xvii. p. 8). On rabbit dung.

S.W.—Melton Wood, on dung of wood-pigeon (F.F. '01).

2432. **Stilbum leiopus** Ehrh.

S.W.—Scabba Wood, near Cadeby, on dung of wood-mouse (F.F. '01). First British record ('Nat.' Nov. '01).

2433. **Stilbum vulgare** Tode.

N.E.—Scarboro' ('Nat.' Aug. '81; Grev. xvii. p. 8). On rotten beech wood.

S.W.—Crimsworth Dean, Hebden Bridge (Fl. Hx.).

N.W.—Masham ('Nat.' Jan. '02).

On rotten wood, oak cupules, twigs, etc.

2434. **Stilbum pellucidum** Schrad.

Mid W.—Horsforth (Tr. ix.). On rotten wood.

S.W.—Hebden Bridge, on *Tubercularia* (Fl. Hx.).

2435. **Stilbum fasciculatum** B. & Br.

S.W.—Nr. Hebden Bridge, on decaying twigs (Fl. Hx.).

2436. **Stilbum fimetarium** B. & Br.

Common on rabbit dung, in damp, shady places. Distribution general. Records numerous for each county division.

2437. **Stilbum aurantiacum** Babington.

N.W.—Masham, on dead elm-branch, Oct. '03.

ISARIA Pers.

[Isaria farinosa Fr.

Not uncommon on dead, putrescent chrysalis form of various insects, especially those buried amongst fallen leaves (Mass. Brit. Fung. Fl. iii. p. 447, fig. 31, p. 397). Recorded for each county division. The conidial condition of *Cordyceps militaris*.]

2438. **Isaria floccosa** Fr.

N.W.—Masham, on dead grub which had crept inside a perforated, empty, hazel-nut shell. The fungus was growing through the hole to the exterior.

2439. **Isaria arachnophila** Ditm.

Mid W.—Church Fenton (Tr. ix.). Poole (Lees' Fl.).

S.W.—Shipley Glen; Ingrow, on dead spiders (Lees' Fl.). Elland Park Wood, on a dead spider (Fl. Hx.).

N.W.—Masham, on dead spider among moss.

2440. **Isaria felina** Fr.

S.W.—Dudwell, Hx., on dog dung (Fl. Hx.).

2441. **Isaria sulphurea** Fiedl.

S.W.—Nr. Hebden Bridge, on vole dung, '94 (Fl. Hx.). Sheffield, on horse dung.

N.E.—Mulgrave Woods (F.F. 1900).

2442. **Isaria brachiata** Schum.

N.E.—Castle Howard (Tr. iv.). Egton Bridge, on decaying Agaric (F.F. '02).

S.W.—Hardcastle; Luddenden Dean, Warley, on putrescent fungi (Fl. Hx.).

N.W.—Masham, on decaying *Mycena* ('Nat.' Jan. '02).

2443. **Isaria intricata** Fr.

N.E.—Scarboro', on dead *Stereum* (Grev. xvii. p. 10).

2444. **Isaria citrina** Pers.

S.W.—Elland Hall Wood, on decaying *Mycena* (Fl. Hx.).

2445. **Isaria Friesii** Mont.

S.W.—Swinefleet (Lees' Fl.).

2446. **Isaria albida** Fr. [*Pachnocybe*. Berk.].

N.E.—Scarboro', on rotten wood ('Nat.' Aug. '81).

ATRACTIUM Link.

2447. **Atractium flammeum** Berk. & Rav.

N.E.—Scarboro', on bark of living willow.

(Mass. Brit. Fung. Fl. iii. p. 452, fig. 33, p. 397).

SYMPHYOSIRA Preuss.

2448. **Symphyosira parasitica** Mass. & Crossl.

S.W.—Sutton, on the fallen mericarps of *Conium maculatum*. and *Heracleum Sphondylium* (F.F. '99=*Symphosira*).

For diagnosis of this interesting parasitic fungus, and details of its life history as worked out at Kew, see (New Fungi. 'Nat.' Jan. '04, pp. 6-8).

PHÆOSTILBEÆ.

SPOROCYBE Fr.

2449. **Sporocybe Phillipsii** Sacc. [*Periconia*. Berk. & Leight.].

S.W.—Melton, on the ground (F.F. '01).

GRAPHIUM Corda.

2450. **Graphium stilboideum** Corda.

S.W.—Near Keighley (Fl. Skipt.). Nr. Hebden Bridge, on fallen branches (Fl. Hx.).

2451. **Graphium rigidum** Sacc. [*Stilbum*. Pers.].

S.E.—Botanic gardens, Boynton (W.W.S.).

2452. **Graphium flexuosum** Sacc. [*Stilbum*. Mass.].

N.E.—Scarboro', on rotten wood (Jour. Micr. Soc. Oct. '85).

S.W.—Nr. Hebden Bridge; Elland Park Wood; on rotting twigs and wood; Stanelly Clough, Stansfield (Fl. Hx.).

N.W.—Rokeby, on rotten wood (F.F. '04).

2453. **Graphium subulatum** Sacc. [*Periconia subulata* Nees.; *Pachnocybe subulata* Berk.].

N.E.—Scarboro' ('Nat.' Aug. '81). On trunks.

S.W.—Saltaire, on wood (Lees' Fl.).

S.E.—Blackwood, Selby (F.F. '96).

2454. **Graphium rhizomorphorum** Mort.

S.W.—High Greenwood, nr. Hebden Bridge, parasitic on mycelium strands of *Armillaria mellea* (Fl. Hx. First British record).

2455. **Graphium glaucocephalum** Sacc. [*Sporocybe*. Bon.; *Periconia*. Corda].

S.E.—Pond Wood, Boynton (W.W.S.).

STYSANUS.

2456. **Stysanus stemonites** Corda.

Mid W.—Leeds (Lees' Fl.).

N.E.—Scarboro', on dead leaves.

S.W.—Saltaire, on damp paper, etc. (Lees' Fl.). Ovenden,

on tree stump; North Dean Wood, etc. on bramble and wood (Fl. Hx.).

ARTHROBOTRYUM Ces.

2457. **Arthrobotryum stilboideum** Ces.

S.W.—Nr. Keighley, on fungus-mycelium (Lees' Fl.). Yorkshire, loc.? (H.T.S. Midland 'Nat.' Feb. '86).

2458. **Arthrobotyrum atrum** B. & Br.

Mid W.—Ingleton, on dead stems of nettles; Apperley (Lees' Fl.). Esholt, on dead nettle-stems (H.T.S.).

On dead stems of various herbaceous plants, and on branches (Mass. Brit. Fung. Fl. iii. p. 460, f. 4, p. 442).

TUBERCULARIACEÆ.

TUBERCULARIEÆ MUCEDINEÆ.

TUBERCULARIA Tode.

[TUBERCULARIA VULGARIS Tode.

Mid W.—Micklefield (F.F. '81).

N.W.—Masham ('Nat.' Jan. '02).

N.E.—Scarboro', on dead twigs, etc.

S.W.—Common on dead branches, especially beech, in the Halifax; Hebden Bridge; and intervening districts (Fl. Hx.).

The conidial condition of *Nectria cinnabarina*. This fungus is now known to attack and destroy young broad leaved trees].

2459. **Tubercularia granulata** Pers.

N.E.—Bulmer; Scarboro' ('Nat.' Aug. '81).

2460. **Tubercularia æsculi** Opiz.

S.W.—Campsall, on dead branches of horse chestnut (F.F. '99).

Possibly the *Tubercularia* killing the young horse chestnut trees at Helmsley, seen at the F.F. '03 may have been this sp.

ILLOSPORIUM Mart.

2461. **Illosporium roseum** Mart.

Mid W.—Bolton Woods (Fl. Skipt.).

S.W.—Pecket Wood, Hebden Bridge, on the thallus of the lichen *Parmelia saxatilis* (Fl. Hx.).

2462. **Illosporium carneum** Fr.

S.W.—Nr. Stump Cross, Hipperholme; and Cromwell

Wood, Southowram, on thallus of *Peltigera canina* (Fl. Hx.). Goitstock, on similar host.

N.W.—Tanfield, on *Peltigera canina*, May '04).

ÆGERITA Pers.

2463. **Ægerita candida** Pers.

Common on rotting wood and bark, especially elder, in wet places in woods. Distribution general. Records numerous for S.W. and N.E.

Mid W.—Harewood; East Keswick (F.F. '98).

N.W.—Masham ('Nat.' Jan. '02). Brignall; Rokeby; '04).

S.E.—Hornsea, '02 (A. R. Warnes).

HYMENULA Fr.

2464. **Hymenula herbarum.**

S.W.—Pecket Wood, Hebden Bridge, on decaying dock leaves (Fl. Hx. First British record).

CYLINDROCOLLA Bon.

[CYLINDROCOLLA URTICÆ Bon.

S.E.—Nr. Hull, on dead stems of nettle (R. H. Philip). Said to be the conidial condition of *Calloria fusarioides*].

VOLUTELLA Lode.

2465. **Volutella ciliata** Fr.

N.E.—Scarboro', on rotten leaves. Mulgrave Woods, on rotten branches (F.F. 1900).

S.W.—Tag Lock, Elland, on decaying potato-haulms; Hebden Bridge, on old bone; Salterhebble, on decaying alder bark; Norland, on dead stems of *Petasites vulgaris*—butterbur; (Fl. Hx.). Whirlow Bridge, near Sheffield, on decaying herbaceous stems. Melton (F.F. '01).

N.W—Masham, on dead wood, twigs, etc. ('Nat.' Jan. 02).

2466. **Volutella setosa** Berk.

S.W.—Elland; and Hardcastle, on dead twigs, and decaying ferns; Copley, on dead bean-stalks (Fl. Hx.).

BACTRIDIUM Kze.

2467. **Bactridium flavum** Kze. & Schw.

Mid W.—Studley Royal (F.F. '81).

N.W.—Masham, on rotten wood, Aug. '03.

FUSARIUM Link.

2468. **Fusarium lateritium** Nees.

S.W.—Luddenden Dean, on dead broom (Fl. Hx.).

2469. **Fusarium foeni** Fr.

S.W.—Halifax, on rotting hay on floor of a helm.

2470. **Fusarium roseum** Link.

S.W.—Elland ('Nat.' June '94). Hebden Bridge, on decaying twigs and leaves (Fl. Hx.).

N.W.—Masham, on decaying stems ('Nat.' Jan. '02).

2471. **Fusarium brassicæ** Thüm.

S.W.—Copley, on rotting cabbage-stalks (Fl. Hx.).

N.W.—Masham, on dead cabbage stalks ('Nat.' Jan. '02).

2472. **Fusarium Cordæ** Mass.

S.W.—Skircoat, Halifax, on dead herb. stems (Fl. Hx.).

FUSARIUM SOLANI Sacc.

S.W.—Shelf, on dead potato-haulms (Fl. Hx.).

This is now proved to be one of the stages in the life history of *Nectria solani* Fr. There are three conidial stages which develop in the following order:—a *Monosporium*, a *Fusarium* (=*F. solani*), and a *Cephalosporium;* see (Journ. Roy. Hort. Soc. Dec. 1904, p. 144).

2473. **Fusarium heterosporum** Nees.

S.W.—Goole ('Nat.' Aug. '81).

"Not uncommon on barley and rye . . . also occurring on several other grasses, as *Lolium*, *Holcus*, . . . *Molinia*" (Mass. Text-Book of Plant Diseases pp. 331-332, fig. 91).

2474. **Fusarium mucophytum** Mass. [*Fusisporium mucophytum* W. G. S., Gard. Chron., 1884, p. 245 with a fig.].

S.W.—Nr. Huddersfield. Parasitic on the gills of *Volvaria gloiocephala* found on shoddy heap (Grev. xvii. p. 15).

2475. **Fusarium betæ** Mass. [*Fusisporium*. Desm.].

N.E.—Scarboro' ('Nat.' Aug. '81; Grev. xvii. p. 15). On decaying beetroot.

(Mass., Brit. Fung. Fl. iii. p. 484, fig. 27 p. 442).

PIONNOTES Fr.

2476. **Pionnotes uda** Sacc. [*Fusisporium udum* B. & Br.].

S.W.—Ovenden, on decaying thistle; Elland Park Wood, on decaying elder-branch ('Nat.' June '94).

TUBERCULARIEÆ DEMATIEÆ.

EPICOCCUM Link.

2477. **Epicoccum vulgare** Corda.

S.W.—Norland, on decaying thistle (Fl. Hx.).

2478. **Epicoccum neglectum** Desm.

N.E.—Scarboro', on reeds and grasses (Grev., xvii. p. 15).

S.W.—Goole ('Nat.' Aug. '81). Saltaire, on decaying plants (Lees' Fl.). Bingley (Fl. Skipt.).

2479. **Epicoccum diversisporum** Preuss.

S.W.—Hebden Bridge, on rotting paper (Fl. Hx.).

2480. **Epicoccum herbarum** Corda.

N.E.—Scarboro', on dead leaves.

S.W.—Park Nook, Southowram, on decaying barley, Nov. '95; North Dean Wood on dead stems of foxglove (Fl. Hx.).

2481. **Epicoccum micropus** Corda.

S.W.—Huddersfield, on *Lactarius* (F.F. '95).

2482. **Epicoccum equiseti** Berk.

S.W.—Nr. Ingrow, on dead *Equisetum hyemale* (Lees' Fl.).

2483. **Epicoccum purpurascens** Ehrb.

S.W.—Heath, Halifax, on dead herbaceous stems (Fl. Hx.).

MYXOGASTRES Fr. = **MYXOMYCETES** Wallr. = **MYCETOZOA** De Bary.

PERITRICHEÆ.

TUBULINÆ.

TUBULINA Pers.

2484. **Tubulina minima** Mass. [*Licea.* Fr.].

N.E.—Bulmer (Mass., Mon. Myx.).

S.W.—Hebden Bridge (Nat. June '94; Fl. Hx.).

2485. **Tubulina flexuosa** Poir. [*Licea.* Pers.].

N.W.—Masham, on decaying pine-wood.

S.E.—Hedon, on worked wood ('Nat.' Sep. '03).

2486. **Tubulina cylindrica** DC. [*Tubulina fragiformis* Pers.; *Licea cylindrica* Fr.; etc.].

N.E.—Scarboro' (Nat. Aug. '81). York (*'Nat.' Aug. '83). Staithes (*'Nat.' Ap. '98). Mulgrave (F.F. 1900). Helmsley (F.F. '03). On wood. Forming compact cakes varying from half an inch to a foot or more in diameter . . . . . (Mass., Mon. Myx., p. 39, pl. 1, figs. 1-6).

Mid W.—Camblesforth, and Carlton (Lees' Fl.).

2487. **Tubulina effusa** Mass. [*Lindbladia effusa* Rost.; *Lindbladia tubulina* Fr.; etc.].

N.E.—Scarboro', on the ground and on wood (Mass., Mon. Myx.). Bulmer (Listers' Myc., p. 138).

CRIBRARIÆ.

ENTERIDIUM Rost.

2488. **Enteridium olivaceum** Ehrh.

N.E.—Scarboro', on wood (Mass., Mon. Myx., p. 44, pl. 1, figs. 14-18).

S.E.—Boynton (Listers' Myc., p. 159). Hedon, on rotting worked wood ('Nat.' Sep. '03).

2489. **Enteridium Rozeanum** Wing.

N.E.—Scarboro', on wood, bark, etc. (Mass., Mon. Myx., p. 46, pl. 4, fig. 108).

CLATHROPTYCHIUM Rost.

2490. **Clathroptychium rugulosum** Rost. [*Dictydiæthalium plumbeum* Rost.; *Licea applanata* Berk.; etc.].

N.E.—Scarboro', on dead wood (Mass., Mon. Myx., p. 51, pl. 1, figs. 25-28).

S.E.—Hedon, on hawthorn branch in a dense fence near the Humber ('Nat.' Sep. '03).

N.W.—Bowes (*'Nat.' Sep. '03).

CRIBRARIA Pers. emend.

2491. **Cribraria pyriformis** Schrad.

N.E.—Scarboro', on rotten pine-wood.

2492. **Cribraria macrocarpa** Schrad.

N.E.—Egton Bridge, on decayed wood (F.F. '02).

2493. **Cribraria purpurea** Schrad.

N.W.—Rokeby, on decaying fir-wood (F.F. '04).

2494. **Cribraria aurantiaca** Schrad.

S.W.—Hebden Bridge; Sun Wood, near Lightcliffe, among rotting bracken ('Nat.' June '94; Fl. Hx.).

Mid W.—Bolton Woods. Buckden (*'Nat.' Sep. '04).

S.E.—Hedon, on fallen willow ('Nat.' Sep. '03).

2495. **Cribraria vulgaris** Schrad.

N.E.—Scarboro', on decayed wood.

2496. **Cribraria microcarpa** Pers.

N.E.—Scarboro', on decayed pine-wood.

2497. **Cribraria argillacea** Pers.

N.E.—Scarboro' (Tr. iv.). Mulgrave Woods (F.F. 1900).

S.W.—Cullingworth, '02.

Mid W.—Buckden Wood, covering a square yard of chips (*'Nat.' Sep.' 04).

S.E.—Boynton (Listers' Myc. p. 140).

DICTYDIUM Schrad.

2498. **Dictydium cernuum** Nees. [*Cribraria cernua* Pers.; *Dictydium umbilicatum* Schrad.; etc.]

N.E.—Scarboro' (Mass., Mon. Myx., p. 67, pl. 5, fig. 133). Bulmer.

S.W.—Bingley, on stump (Lees' Fl.). Cullingworth.

Mid W. -Bramham (F.F. '88). Buckden Wood (*'Nat.' Sep. '04). On decaying wood.

COLUMELLIFERÆ.

STEMONITÆ.

STEMONITIS Gled.

2499. **Stemonitis fusca** Roth.

Frequent on rotten wood throughout the county. Records numerous.

2500. **Stemonitis typhina** Roth. [*S. typhoides* DC.].

N.E.—Scarboro', on rotten wood. Mulgrave Woods (Tr. B.M.S. '05).

Mid W.—Gateforth; Drax (Lees' Fl.).

S.W.—Potridings Wood (F.F. '01).

N.W.—Masham, on dead wood ('Nat.' May '03).

2501. **Stemonitis Friesiana** De Bary [*S. ovata* Pers.; *S. obtusata* Fr.; *Comatricha Friesiana* Rost.; *C. obtusata* Preuss; etc.].

Common on rotting wood, branches, leaves, etc. Records numerous for each county division.

2502. **Stemonitis ferruginea** Ehrh.

S.W.—"Halifax, 1789, in the hollows of old decayed stocks and roots of trees" (Bolton, Tab. 93, fig. 1 = *Clathrus nudus*).

N.E.—Scarboro', on rotten wood (Mass. Mon. Myx. p. 85, pl. 6, figs. 160-161). Mulgrave Woods (F.F. 1900).

S.E.—Pond Woods, Boynton.

BREFELDIA Rost.

2503. **Brefeldia maxima** Rost [*Reticularia*. Fr.].

N.E.—Bulmer (Mass. Mon. Myx. pl. 10, figs 254-256).

S.E.—Boynton (W.W.S.); (Listers' Myc. p. 136).

RETICULARIA Bull.

2504. **Reticularia lycoperdon** Bull. [*R. umbrina* Fr.].

S.W.—"Halifax, 1788, on old beam over the pan in a brew-house" (Bolton, Tab. 133, f. 2 = *Mucor lycogalus*).

Common on wood, bark, etc. Distribution general. Records numerous for each county division.

LAMPRODERMÆ.

LAMPRODERMA Rost.

2505. **Lamproderma violaceum** Rost.

N.E.—Castle Howard. On wood, moss, etc. (Mass. Mon. Myx. p. 94, pl. 6, figs. 152-154). Bulmer.

S.W.—Hebden Bridge (Fl. Hx.).

2506. **Lamproderma suboeneum** Mass.

N.E.—Bulmer, on twigs, moss, etc. (Mass. Mon. Myx.).

2507. **Lamproderma arcyrioides** (Somm.) Rost.

N.E.—Scarboro', on rotten wood, dead leaves, etc. (Mass. Mon. Myx. p. 102, pl. 6, figs. 145-148).

2508. **Lamproderma physarioides** Rost.

N.E.—Bulmer.

S.W.—Several places near Hebden Bridge, on decaying moss-covered branches (Fl. Hx.).

ENERTHENEMA Bowm.

2509. **Enerthenema elegans** Bowm.

S.E.—Pond Wood, Boynton (W.W.S.).

S.W.—Elland Park Wood, on rotten wood (Fl. Hx.).

Mid W.—Near Oughtershaw Tarn (*'Nat.' Sep. '04).

CALOTRICHEÆ.

ARCYRIÆ.

PERICHÆNA Fr.

2510. **Perichæna depressa** Libert.

S.W.—Elland Park Wood; Skircoat; Lightcliffe; etc., on dead wood (Fl. Hx.). Owston (F.F. '99).

Mid W.—Woodhall Bridge (F.F. '98). Bolton Woods.

S.E.—Filey, on dead wood (*'Nat.' Jy. '03). Hedon, on fallen ash trunk ('Nat.' Sep. '03).

N.W.—Brignall; Rokeby (F.F. '04).

2511. **Perichæna corticalis** Rost. [*Lycoperdon corticale* Batsch.; *P. populina* Fr.; *P. abietina* Fr.; etc.].

N.E.—Castle Howard, on bark and wood (Mass. Mon. Myx. pl. 5, figs. 114-117). Bulmer. Mulgrave Woods (F.F. 1900).

S.W.—Elland Park Wood; Cromwell Wood; Salterhebble; Lightcliffe; Stansfield; Hebden Bridge; etc., on stumps and logs (Fl. Hx.). Bingley (Fl. Skipt.). Anston (T. Gibbs).

Mid W.—Esholt, on dead fir-trees (Lees' Fl.). Wetherby (Tr. i.). Bolton Woods (Fl. Skipt.). Selby, '03.

S.E.—Boynton (W.W.S.); (Lister's Myc. p. 199). Hedon ('Nat.' Sep. '03).

N.W.—Rokeby, on rotten wood (F.F. '04).

2512. **Perichæna confusa** Mass. [*P. variabilis* Rost.].

S.E.—Hedon, on poplar, and hawthorn ('Nat.' Sep. '03).

LYCOGALA Mich.

2513. **Lycogala epidendrum** Fr. [*Lycoperdon epidendrum* L.; *Lycogala miniatum* Pers.; etc.].

S.W.—"Grows in woods about Halifax, 1789" (Bolton, Tab. 119, f. i.). Common on decaying trunks, stumps, etc., throughout the county. Records for each division too numerous to detail.

PROTOTRICHIA Rost. emend.

2514. **Prototrichia flagellifera** (B. & Br.) Rost.

N.E.—Scarboro' ('Nat.' Aug. '81). Bulmer.

S.E.—Nr. Hedon, on old willow ('Nat.' Sep. '03).

2515. **Prototrichia metallica** Mass. Rev. Trich. p. 350, fig. 26. [*Trichia metallica* B. & Br. Fl. Tasm. p. 268].

N.E.—Scarboro', on wood. A new British record.

2516. **Prototrichia cuprea** Mass. Rev. Trich. p. 351, pl. vii., fig. 24.

N.E.—Scarboro', on dead thorn (Mon. Myx., p. 5, figs. 127-9).

2517. **Prototrichia chamaeleontina** Mass. [*Physarum metallicum* Berk.; *Cornuvia metallica* Rost.]

S.W.—Saltaire, on stump (Lees' Fl.).

OPHIOTHECA Curr. emend.

2518. **Ophiotheca circumscissa** Mass. [*O. chrysosperma* Curr; *Perichæna chrysosperma* Lister].

Mid W.—Esholt ('Nat.' Aug. '81).

S.W.—Steeton, under bark (Lees' Fl.).

N.E.—Scarboro', on bark.

ARCYRIA Hill emend.

2519. **Arcyria punicea** Pers.

S.W.—Halifax, 1789 (Bolton, Tab. 93, fig. 3).

Common on moist, rotting wood. Records for each county division too numerous to detail.

2520. **Arcyria ferruginea** Sauter.

N.E.—Scarboro', on rotten wood (Mass., Mon. Myx., p. 144, pl. 10, figs. 250-253).

S.W.—Green Hurst, near Hebden Bridge (Fl. Hx.).

2521. **Arcyria incarnata** Pers.

S.W.—Several places in the neighbourhoods of Halifax and Hebden Bridge (Fl. Hx.). Owston (F.F. '99). Potridings Wood (F.F. '01). Bingley (Fl. Skipt.). Chellow Dean (J. E. Sutcliffe).

Mid W.—Church Fenton (Lees' Fl.). Bolton Woods (J.E.S.). Cray Gill, and Buckden Woods (*' Nat.' Sep. '04).

N.E.—Scarboro'. Mulgrave, 1900. Helmsley (F.F. '03).

N.W.—Bowes (*' Nat.' Sep. '03).

S.E.—Hedon (' Nat.' Sep. '03).

2522. **Arcyria nutans** Grev. [*Trichia nutans* Bull; *Arcyria flava* Pers.; etc.].

N.E.—Scarboro' (Mass., Mon. Myx., p. 150, pl. 5, figs. 140-141). Mulgrave Woods (F.F. 1900).

S.E.—Boynton (Listers' Myc. p. 190). Near Hedon (' Nat.' Sep. '03).

Mid W.—Harewood '98. Buckden (*' Nat.' Sep. '04).

S.W.—Sterne Mill, Skircoat (Fl. Hx.). Edlington Wood (T. Gibbs). Cullingworth, '02. On rotten wood and bark.

N.W.—Masham (' Nat.' Jan. '02). Bowes (*' Nat.' Sep.'03).

2523. **Arcyria cinerea** Schum. [*Trichia cinerea* Bull; *A. albida* Pers.; *A. pomiformis* Rost; *A. ochroleuca* Fr.; etc.].

N.E.—Scarboro', on wood and bark (Mass., Mon. Myx., p. 151, pl. 5, figs. 137-139; pl. 10, figs. 248-249). Bulmer. Stokesley.

S.W.—Shipley Glen (Lees' Fl.). Skircoat; Luddenden Dean; North Dean Wood; Hebden Bridge; Elland Park Wood; etc. (Fl. Hx.). Cadeby (F.F. '01). Kiveton Park.

S.E.—Escrick (F.F. '96). Near Hedon (' Nat.' Sep. '03).

N.W.—Masham (' Nat.' Jan. '02). Brignall (F.F. '04).

Mid W.—Buckden Wood, on dead wood (' Nat.' Sep. '04).

2524.—**Arcyria rubiformis** Mass. [*Trichia rubiformis* Pers.; *Hemiarcyria*. Rost.; *Hemitrichia*. Lister].

N.E.—Bulmer, on rotten wood, moss, etc. (Mass., Mon. Myx., p. 158, pl. 10, figs. 262-264). Scarboro'.

Mid W.—Micklefield; Harrogate (F.F. '81).

S.E.—Boynton Botanical Gardens (W.W.S.); (Listers' Myc. p. 176).

S.W.—Nr. Hebden Bridge, on fallen birch (Fl. Hx.).

N.W.—Swinton, Masham, on moss ('Nat.' Jan. '02).

2525. **Arcyria clavata** Mass., Mon. Myx., p. 165-6, pl. 5, f. 124 [*Trichia*. Pers.; *Hemiarcyria*. Rost.; *Hemitrichia*. Rost.].

N.E.—Scarboro' (Tr. iv.).

TRICHEÆ.

OLIGONEMA Rost.

2526. **Oligonema nitens** Rost. [*Trichia*. Pers.].

N.E.—Scarboro', on wood, bark, etc.

TRICHIA Haller. emend.

2527. **Trichia Carlyleana** Mass., Mon. Trich. p. 5, f. 15.

S.W.—Elland Park Wood; Stansfield (Fl. Hx.).

2528. **Trichia fragilis** Rost. [*T. botrytis* Pers.].

S.W.—"On moist putrid, wood in damp places, Halifax" (Bolton, Tab. 93, f. 2). Elland Park Wood; Hebden Bridge; Stansfield; on rotting wood, dead leaves, ferns, etc. (Fl. Hx.).

N.E.—Castle Howard (Mass., Mon. Myx., p. 175, pl. 1, figs. 7-10). Scarboro' ('Nat.' Aug. '81). Bulmer. Egton Bridge, '02. Breaday Gill, near Scarboro', on wood (*'Nat.' Jy. '04).

MID W.—Cray Gill, and Buckden (*'Nat.' Sep. '04).

form **genuina**.

N.W.—Masham ('Nat.' Jan. '02).

S.W.—Hardcastle (Fl. Hx.).

form **Lorinseriana**.

N.E.—Scarboro' ('Nat.' Aug. '81).

form **serotina**.

S.W.—Hardcastle, among decaying ferns (Fl. Hx.).

form **lateritia**.

S.W.—Hebden Bridge, among dead leaves (Fl. Hx.).

2529. **Trichia varia** Pers.

Common on dead wood, bark, etc. Distribution general. Records numerous for each division, especially S.W.

form **nigripes.**

Mid W.—Esholt (Lees' Fl.).

S.W.—Elland Park Wood (Fl. Hx.).

form **genuina.**

S.W.—Brookhouse, Ovenden, on dead wood (Fl. Hx.).

2530. **Trichia contorta** Rost.

N.E.—Scarboro', on rotten wood.

2531. **Trichia abrupta** Cke. [*T. persimilis* Karst.].

N.E.—Scarboro', on wood. Oxdale (*'Nat.' Jy. '04).

S.E.—Boynton (Listers' Myc. p. 166).

Mid W.—Buckden (*'Nat.' Sep. '04).

2532. **Trichia Jackii** Rost. Mass., Mon. Trich. p. 16, fig. 5. N.E.—Castle Howard (Mass., Mon. Myx.). Bulmer.

2533. **Trichia chrysosperma** DC. [*Trichia favoginea* Pers.; etc.].

S.W.—Halifax, 1789. "Grows on putrid wood, in damp places" (Bolton, Tab. 94, fig. iii. = *Clathrus turbinatus* Huds.). Doncaster (Lees' Fl.). Well Head, Hx.; Elland Park Wood; North Dean Wood; Hebden Bridge; etc. (Fl. Hx.). Huddersfield (F.F. '95). Hugsett (F.F. '97). Cadeby (F.F. '01).

N.E.—Scarboro' (Tr.iv.). Castle Howard (*'Nat.' June '80). Bulmer. On wood, bark, moss, etc.

S.E.—North Wood, Boynton (W.W.S.).

Mid W.—Horsforth; Micklefield (F.F. '81). Bolton Woods ('Nat.' Aug. '81); Leeds; Esholt; Barlow (Lees' Fl.).

N.W.—Masham ('Nat.' Jan. '02).

2534. **Trichia scabra** Rost.

N.E.—Scarboro' (Mass., Mon. Myx.). Bulmer.

S.W.—Campsall (F.F. '99).

2535. **Trichia fallax** Pers.

N.E.—Scarboro' ('Nat.' Aug. 81). Mulgrave Woods (F.F. 1900). Helmsley (F.F. '03). Breaday Gill, near Scarboro' (*'Nat.' Jy. '04). On rotten wood.

Mid W.—Esholt, Spring Wood (Lees' Fl.). Buckden Woods, abundant (*'Nat.' Sep. '04).

S.E.—Boynton (Lister's Myc.). Hedon ('Nat.' Sep. '03).

S.W.—Kiveton Park (T. Gibbs).

N.W.—Masham ('Nat.' Jan. '02). Bowes (*'Nat.' Sep. '03). Brignall; Rokeby (F.F. '04).

2536. **Trichia affinis** De By.

N.E.—Scarboro'; Castle Howard, on wood, twigs, moss, etc. (Mass., Mon. Myx.). Bulmer. Mulgrave Wood (F.F. 1900).

S.W.—Sun Wood, nr. Lightcliffe, on dead leaves and moss; Elland Park Wood; North Dean Wood; on rotten wood and twigs (Fl. Hx.). Notton nr. Wakefield (J. W. H. Johnson).

N.W.—Masham ('Nat.' Jan. '02).

LITHODERMEÆ.

DIDYMEÆ.

CHONDRIODERMA Rost. (in part).

2537. **Chondrioderma radiatum** Rost. [*Lycoperdon radiatum* Linn.; *Diderma umbilicatum* Pers.; etc.].

N.E.—Scarboro' (Mass., Mon. Myx., p. 200, pl. 4, figs. 92-95).

S.W.—Nr. Keighley ('Nat.' Feb. '86). Hainworth Wood, on an old stump (Lees' Fl.). Cullingworth. On wood, bark, etc.

S.E.—Boynton (Listers' Myc. p. 83). Hedon, on decaying thorn ('Nat.' Sep. '03).

2538. **Chondrioderma Michelii** Rost.

S.E.—Boynton (Listers' Myc. p. 79).

2539. **Chondrioderma difforme** Rost. [*Diderma.* Pers.; *Didymium* Duby; *Physarum album* Fr.; *Diderma nitens* Klotsch; etc.].

N.E.—Scarboro' ('Nat.' Jy.' 81); Mass., Mon. Myx., p. 212, pl. 2, figs. 35-38). Stokesley (Exc. '99).

S.W.—Goole ('Nat.' Jy. 81). Fagley; Bingley; Shipley Glen, Saltaire (Lees' Fl.). Birdwell (F.F. '97). Elland Hall Wood; Shibden; Hebden Bridge (Fl. Hx.). On twigs, leaves, etc.

Mid W.—Harrogate; Hawksworth, on bark, twigs, dead leaves, etc. (Lees' Fl.). Woodhall Bridge (F.F. '98).

N.W.—Masham ('Nat.' Jan. '02).

S.E.—Hedon, on nettles ('Nat.' Sep. '03).

2540. **Chondrioderma physarioides** Rost.

N.W.—Rokeby, on rotten wood (F.F. '04).

DIDYMIUM Schrad.

2541. **Didymium farinaceum** Schrad. [*D. melanopus* Fr.; *D. hemisphericum* Fr.; etc.].

N.E.—Scarboro' (Mass., Mon. Myx., p. 219, pl. 2, figs. 29-35).

S.W.—Swinefleet (Lees' Fl.). Huddersfield (F.F. '95). Ovenden; Hebden Bridge; Barkisland; Skircoat; Elland, on bark, leaves, wood, etc. (Fl. Hx.). Sowood, Dewsbury, in a colony of about 500 fructifications, equally distributed over 10-12 square inches, which they had built on the under surface of a blue roofing slate resting on decayed wood troughing on an outhouse, May '02 (P. F. Lee).

Mid W.—Leeds district (Lees' Fl.). Selby '03.

N.W.—Masham, on leaves and moss ('Nat.' May '03).

2542. **Didymium squamulosum** Fr.

Common on rotten wood, leaves, especially sycamore, moss, etc., and very variable. Distribution general. Recorded for all the county divisions.

2543. **Didymium microcarpon** Rost. [*Physarum microcarpon* Fr.; *P. nigripes* Link; *D. nigripes* Fr.; etc.].

N.E.—Scarboro' (Tr. iv.). Egton Bridge (F.F. '02). Oxdale, on wood (*'Nat.' Jy. '04). Mulgrave Woods (Tr. B.M.S. '05).

Mid W.—Church Fenton; Leeds district (Lees' Fl.).

S.E.—Pond Wood, Boynton (W.W.S.).

S.W.—Owston, on twigs, leaves, etc. (F.F. '99).

2544. **Didymium spumarioides** Fr. [*Chondrioderma spumarioides* Rost.; *C. stromateum* Rost.; etc.].

N.E.—Scarboro', on leaves, moss, etc. (Mass., Mon. Myx.).

2545. **Didymium serpula** Fr.

N.E.—Scarboro', on leaves (Mass., Mon. Myx., p. 234, pl. 2, figs. 55-57). Mulgrave Woods (F.F. 1900). Egton Bridge '02.

S.W.—Bingley, on dead leaves (Lees' Fl.)

2546. **Didymium confluens** Rost. [*D. crustaceum* Fr.].

N.E.—Castle Howard (Mass., Mon. Myx.). Bulmer.

2547. **Didymium effusum** Link, Obs. ii. p. 42 (1816).

S.E.—Filey (* 'Nat.' July '03).

N.E.—Scarboro', on dead wood (*' Nat.' June '04).

S.W.—Bingley (Fl. Skipt.).

2548. **Didymium longipes** Mass., Mon. Myx., p. 236, pl. 9, fig. 226.

N.E.—Bulmer, on bark and wood.

2549. **Didymium elegantissimum** Mass.

N.E.—Scarboro', on twigs and leaves (Mass., Mon. Myx.).

2550. **Didymium Tussilaginis** Mass. [*Physarum tussilaginis* B. & Br.; *Chondrioderma Cookei* Rost.].

S.W.—Midgehole and Cat Holes' Clough, near Hebden Bridge, on living leaves of colts-foot (Fl. Hx.).

LEPIDODERMA De By.

2551. **Lepidoderma fulvum** Mass., Mon. Myx., p. 253, pl. 2, figs. 39, 40.

N.E.—Bulmer, on twigs, mosses, etc.

2552. **Lepidoderma tigrinum** Rost.

N.W.—Teesdale, Yorks. side (Mass., Mon. Myx., p. 253, pl. 2, figs. 41-43). On mosses, wood, etc.

SPUMARIA Pers.

2553. **Spumaria alba** DC.

N.E.—Scarboro' ('Nat.' Aug. '81; Mass., Mon. Myx.). Bulmer. Helmsley (F.F. '03).

S.W.—Haigh (* 'Nat.' Oct. '82). Steeton; Saltaire; Shipley Glen (Lees' Fl.). Kirk Smeaton (A. R. Warnes).

Mid W.—Church Fenton; Brayton (Lees' Fl.). Harewood (F.F. '98). Barden; Silsden (Fl. Skipt.).

S.E.—Nr. Hull (A. R. Warnes).

On wood, bark, leaves, twigs, grass, etc.

DIACHÆA Fr.

2554. **Diachæa leucopoda** Rost. [*Trichia leucopoda* Bull; *Diachæa elegans* Fr.; etc.].

N.E.—Scarboro'.

S.W.—Hebden Bridge, on grass, leaves, etc. (Fl. Hx.).

PHYSARÆ.

CRATERIUM Trent.

2555. **Craterium confusum** Mass. [*C. pedunculatum* Trent.; *C. minutum* Fr.; etc.].

N.E.—Scarboro' (Mass., Mon. Myx., p. 263, pl. 11, fig. 289). Raincliff (Lister's Myc. p. 71). Mulgrave Woods (F.F. 1900). On leaves, twigs, bark, etc.

S.W.—Shipley Glen; Newsholme Dean; Saltaire (Lees' Fl.). Nr. Hebden Bridge: several places; Elland Park Wood; Southowram; etc., on dead leaves and bark, also swarms on to living herbaceous stems and leaves (Fl. Hx.).

Mid W.—Bolton Woods (Fl. Skipt.).

N.W.—Masham ('Nat.' May '03). Brignall; Rokeby; '04.

S.E.—Filey ('Nat.' Jy. '03).

2556. **Craterium leucocephalum** (Pers.) Ditm.

N.E.—Scarboro' (Mass., Mon. Myx., p. 267, pl. 12, figs. 298-301). Bulmer. Egton Bridge (F.F. '02).

Mid W.—Adel, on wood, etc. (Lees' Fl.).

S.W.—Ingrow; Hainworth (Lees' Fl.). Elland Park Wood, on moist, dead leaves (Fl. Hx.).

2557. **Craterium aureum** Rost. [*C. mutabile* Fr.].

N.E.—Mulgrave Woods (F.F. 1900).

2558. **Craterium lilacinum** Mass. [*Badhamia*. Rost.].

N.E.—Pilmoor (Lister's Myc. p. 35).

PHYSARUM Pers.

2559. **Physarum virescens** Ditm.

N.E.—Scarboro'.

S.W.—Wharncliffe Woods (*'Nat.' Oct. '03).

2560. **Physarum nephroideum** Rost. [*Physarum compressum* Alb. & Schw.].

S.E.—Hedon, on fallen elm trunk ('Nat.' Sep. '03).

2561. **Physarum leucopus** (Link.) Rost.

N.E.—Scarboro'. On wood, moss, etc.

S.W.—Cadeby (F.F. '01).

2562. **Physarum leucophæum** Fr.

N.E.—Scarboro' (Mass., Mon. Myx., p. 288, pl. 3, figs. 63-66). Mulgrave Woods (Tr. B.M.S. '05).

S.W.—Newsholme Dean (Lees' Fl.). Lightcliffe, on decaying wood in stack-garth (Fl. Hx.). Potridings Wood '01).

N.W.—Masham ('Nat.' Jan. '02).

2563. **Physarum didermoides** Rost. [*Didymium congestum* B. & Br.].

N.E.—Scarboro' (Tr. iv.). Bulmer (Mass., Mon. Myx., p. 291, pl, 3, figs. 82-84).

2564. **Physarum Carlylei** Mass. Mon. Myx., p. 293, pl. 10, figs. 240, 241.

S.W.—Savin Royd, nr. Barnsley, on wood (F.F. '97).

2565. **Physarum cinereum** (Batsch) Pers.

N.E.—Scarboro', on leaves, wood, etc. (Mass., Mon. Myx., p. 298, pl. 3, figs.71-73).

2566. **Physarum sinuosum** (Bull.) Fr. [*P. bivalve* Pers.; *Angioridium sinuosum* Grev.; etc.].

N.E.—Castle Howard (Mass., Mon. Myx., p. 305, pl. 12, figs. 292, 293). Bulmer. On bark, wood, leaves, etc.

Mid W.—Horsforth (Tr. ix.).

S.W.—Hebden Bridge, on dead leaves (Fl. Hx.).

N.W.—Masham, on dead herbaceous stems, grass, moss, etc. ('Nat.' May '03).

BADHAMIA Berk.

2567. **Badhamia macrocarpa** Rost.

N.E.—Scarboro'. On decaying fungi, bark, etc.

Mid W.—Barden, on dead holly-twigs (Fl. Skipt.).

S.W.—Hebden Bridge, on wood; Halifax, on rubbish heap in a warehouse yard (Fl. Hx.).

S.E.—Hedon, on fallen elm trunk ('Nat.' Sep. '03).

2568. **Badhamia varia** Mass., Mon. Myx. [*Badhamia utricularia* (Bull.) Berk.; etc.].

N.E.—Scarboro', on wood, moss, etc. Egton Bridge, pendant beneath a fallen, rotting branch (F.F. '02).

Mid. W.—Stainor Wood, on living nettle leaves.

S.E.—Near Selby, Oct. '03.

TILMADOCHE Rost.

2569. **Tilmadoche nutans** Rost. [*Physarum nutans* Pers.; etc.].

Common on dead wood, leaves, bark, etc. Extremely variable. Distribution general. Records for each county division too numerous to give in detail.

2570. **Tilmadoche mutabilis** Rost. [*Physarum viride* (Bull.) Pers.; *P. aureum* Pers.; *T. viridis* Sacc.; etc.].

N.E.—Bulmer (Mass., Mon. Myx., p. 329, pl. 10, figs. 236-239). Scarboro' ('Nat.' Aug. '81).

Mid W.—Esholt; Harrogate (Lees' Fl.).

S.W.—Saltaire; Heaton (Lees' Fl.). Heptonstall, nr. Hebden Bridge (Fl. Hx.). On wood, bark, dead leaves, etc.

LEOCARPUS Rost.

2571. **Leocarpus fragilis** (Dicks.) Rost. [*Diderma vernicosum* Pers.; *L. vernicosus* Link.; etc.].

S.W.—"Halifax, on an Hair Grass" (Bolton, unpublished Tab. 212, Brit. Mus. Nat. Hist. coll). Many places in the woods about Halifax and Hebden Bridge (Fl. Hx.). Huddersfield (F.F. '95). Owston (F.F. '99).

N.E.—Scarboro' ('Nat.' Aug. '81; Mass., Mon. Myx., p. 338, pl. 7, figs. 187-189). Castle Howard. Bulmer. Helmsley.

Mid W.—Bolton Woods (Fl. Skipt.).

S.E.—Escrick (F.F. '96).

N.W.—Masham ('Nat.' May '03). Bowes (*'Nat.' Sep. '03).

Almost always swarms up living grass and other herbaceous stems, ferns, twigs, etc.

FULIGO Hall.

2572. **Fuligo varians** Somm. [*Fuligo septica* Gmel.; *Æthalium septicum* Fr.; *Æ. vaporarium* Fr.; etc.].

S.W.—"Woodhouse Wood, nr. Halifax, 1782" (Bolton, Tab. 134).

Common amongst dead leaves, grass, and other herbaceous vegetation, tan in greenhouses, on rotten wood, pine needles, etc. Records numerous for S.W. and N.E.

MID W.—Bramley; Boston Spa (Lees' Fl.). Silsden. Hawksworth (J.E.S.). Buckden Wood (*'Nat.' Sep. '04).

N.W.—Masham ('Nat. Jan. '02). Bowes (*'Nat.' Sep. '03).

CERATIOMYXACEÆ.

CERATIOMYXA Schroet.

2573. **Ceratiomyxa mucida** Schroet. [*Ceratium hydnoides* Alb. & Schw.].

N.E.—Scarboro', on rotten wood (Tr. ix.: Grev. xvii. p. 101. Mulgrave Woods (F.F. 1900). Breaday Gill, near Scarboro', on wood (*'Nat.' Jy. '04).

MID W.—Church Fenton (Lees' Fl.). Harewood (F.F.'98). Buckden Wood, abundant (*'Nat.' Sep. '04).

N.W.—Masham ('Nat.' Jan. '02). Brignall ('Nat.' Sep. '03); and (F.F. '04). All on rotting stumps.

APPENDIX I.

ADDITIONAL SPECIES.

The species printed in small type have already appeared in the body of the Flora.

GASTROMYCETES.

2574. **Lycoperdon flavosum** Oed.

S.W.—Hebden Bridge, on sandy soil and humus ('Nat.' Feb.'03). Boltons Tab. 117 contains a figure much resembling this species. To follow No. 22.

Melanogaster variegatus Tul.

Var. **Broomeianus** Berk.

S.E.—Mount Airy, South Cave, on charred ground in a beech wood (Exc. '94).

HYMENOMYCETES.

AGARICACEÆ.

2575. **Amanita porphyria** A. & S.

N.E.—Iburndale (Tr. B.M.S. '05). To follow No. 43.

2576. **Lepiota nigro-marginata** Mass.

N.E.—Scarboro', May '85 (Journ. Bot., xli. p. 385). To follow No. 66.

2577. **Lepiota micropholis** B. & Br.

N.E.—Scarboro', on cocoanut fibre in a stove (Grev. xvi., p. 101; Cooke's Illustr. pl. 943*b*). To follow No. 67.

2578. **Lepiota cinnabarina** (A. & S.).

N.E.—Helmsley (F.F. '03). To follow No. 71.

2579. **Tricholoma acerbum** (Bull.).

N.E.—Rievaulx (F.F. '03). To follow No. 126.

Tricholoma terreum (Schæff).

Var. **atro-squamosum** Chev.

N.W.—Masham ('Nat.' May '03).

2580. **Tricholoma circumtectum** Cke. & Mass.

S.W.—Goitstock, '03. To follow No. 122.

2581. **Tricholoma sævum** Gillet.

N.E.—Egton Bridge, in pasture (F.F. '02).

Mid W.—Bramhope, '02 (Thos. Whitham).

N.W.—Masham ('Nat.' May '03). Rokeby (F.F. '04). To follow No. 127.

Tricholoma melaleucum (Pers.).

Var. **polioleucum** Fr.

N.E.—Helmsley (F.F. '03). Insert at bottom of p. 31.

2582. **Tricholoma lixivium** Fr.

N.E.—Rievaulx (F.F. '03). To follow No. 137.

2583. **Clitocybe pergamena** Cke.

N.E.—Helmsley (F.F. '03). To follow No. 152.

2584. **Clitocybe obsoleta** (Batsch.).

N.E.—Arncliffe Woods (F.F. '02). To follow No. 169.

Collybia platyphylla Fr.

Var. **repens** Ach.

S.W.—North Dean Wood (Fl. Hx.).

2585. **Mycena carneo-sanguinea** Rea.

N.E.—Raincliffe Wood, Scalby, nr. Scarboro' (Tr. B.M.S., 1899-1900, p. 157). To follow No. 212.

2586. **Mycena nivea** Quel.

Mid W.—Harrogate (F.F. '81). To follow No. 221.

2587. **Mycena tenella** Fr.

N.W.—Rokeby (F.F. '04). To follow No. 249.

2588. **Mycena cruenta** Fr.

N.E.—Mulgrave Woods (Tr. B.M.S.'05). To follow No. 251.

2589. **Pluteus salicinus** Pers.

N.E.—Mulgrave Woods (Tr. B.M.S.'05). To follow No. 323.

2590. **Leptonia anatina** Lasch.

N.E.—Mulgrave Woods (Tr. B.M.S.'05). To follow No. 366.

2591. **Nolanea papillata** Bres.

N.E.—Iburndale (Tr. B.M.S. '05). To follow No. 380.

2592. **Nolanea picea** Kalch.

N.E.—Mulgrave Woods (Tr. B.M.S.'05). To follow No. 384.

2593. **Inocybe tricholoma** A. & S. [*Flammula tricholoma* Fr.].

N.E.—Mulgrave Woods (Tr. B.M.S.'05). To follow No. 451.

2594. **Flammula scamba** Fr.

N.E.—Mulgrave Woods (Tr. B.M.S.'05). To follow No. 480.

2595. **Galera siliginea** Fr.

N.E.—Scarboro' (Grev. xviii. p. 42). To follow No. 504.

2596. **Cortinarius** (Phleg.) **infractus** Fr.

N.W.—Masham, Sep. '03. To follow No. 542.

2597. **Cortinarius** (Phleg.) **multiformis** Fr.

N.E.—Mulgrave Woods (Tr. B.M.S.'05). To follow No. 543.

2598. **Cortinarius** (Phleg.) **prasinus** Fr.

N.E.—Mulgrave Woods (Tr. B.M.S.'05). To follow No. 550.

2599. **Cortinarius** (Phleg.) **decoloratus** Fr.

N.E.—Mulgrave Woods (Tr. B.M.S.'05). To follow No. 552.

2600. **Cortinarius** (Tela.) **punctatus** (Pers.).

N.W.—Rokeby (F.F. '04). To follow No. 601.

2601. **Coprinus squamosus** Morgan.

N.E.—Mulgrave Woods (Tr. B.M.S.'05). To follow No. 727.

2602. **Hygrophorus nemoreus** (Lasch).

S.E.—Escrick (F.F. '96). To follow No. 773.

Hygrophorus virgineus (Wulf).

Var. **roseipes** Mass.

N.E.—Mulgrave Woods (Tr. B.M.S. '05).

Hygrophorus turundus Fr.

Var. **mollis** B. & Br.

N.E.—Mulgrave (Tr. B.M.S. '05).

Russula emetica Fr.

Var. **fallax** Schæff.

N.E.—Mulgrave Woods (Tr. B.M.S. '05).

Russula heterophylla Fr.

Var. **galochroa** Fr.

N.E.—Mulgrave Woods (Tr. B.M.S. '05).

2603. **Marasmius sclerotipes** Bres.

The note under No. 187—*Collybia tuberosa*, refers to this species. To follow No. 937.

POLYPORACEÆ.

2604. **Polyporus rutilans** Fr.

N.E.—Mulgrave Woods (Tr. B.M.S. '05)

UREDINACEÆ.

ENDOPHYLLEÆ.

2605. **Endophyllum sempervivi** Lév. [*Uredo.* A. & S.].

N.E.—Bulmer, on *Sempervivum tectorum.* To precede *Melampsoreæ.*

PUCCINIEÆ.

2606. **Puccinia ægra** Grove.

N.W.—Aysgarth, on *Viola lutea,* Jy. '02 (J. Wms. Sutcliffe, Hx.). To follow No. 1328.

2607. **Æcidium strobilinum** Rees. [*Licea.* A. & S.; *Phelonitis.* Pers.; *Perichæna.* Fr.].

N.E.—Castle Howard, on pine-cone scales (Tr. iv.). To follow No. 1399.

PYRENOMYCETES.

2608. **Dialonectria Leightoni** B. & Br.

Yorkshire. Locality ? (Grev. i. p. 155; xv. p. 8). To follow No. 1462.

2609. **Lasionectria flavida** Ca.

N.E.—Scarboro', on dead holly (Grev. xv. p. 8). To follow No. 1465.

2610. **Acrospermum graminum** Lib.

S.W.—Saltaire, on dead grass (Lees' Fl.). To follow No. 1472.

2611. **Hypoxylon effusum** Nitschke.

N.E.—Mulgrave Woods (Tr. B.M.S. '05). To follow No. 1493.

2612. **Herpotrichia nigra** Hartig.

N.W.—Masham, on seedling Scots fir. "A destructive parasite, when once introduced into a nursery of conifers. The leaves are attacked and soon killed, but do not fall to the ground, being held to the branch by fine threads of mycelium.

By this means large tufts of dead leaves accumulate on the branches of attacked seedlings" ('Nat.' June '05). First British record. To follow 1585.

2613. **Sordaria pleiospora** Wint. Hedwigia, x. 161 (1871). [*Philocopra*. Sacc. Syl. i. p. 249; *Podospora*. Wint., Rabh. Krypt. Fl. Bd. 1, Abth. 2, p. 175].

S.W.—Ecclesall Wood, Sheffield '03, on rabbit dung ('Nat.' May '05). For description and figure of British specimens, see (Researches on Coprophilous Fungi, Mass. & Salm., Annals of Bot., June 1901, pp. 338-9, pl. xvii. fig. 14). To follow No. 1607.

2614. **Sordaria pusilla**. [*Philocopra pusilla* Mont., Bull. Soc. Bot. R. Belg., 1866, p. 146; Sacc. Syl., ix. p. 494].

S.W.—Ecclesall Wood, Sheffield, '03, on rabbit dung ('Nat.' May '05). First British Record. To follow *S. pleiospora*.

DISCOMYCETES.

2615. **Patellaria clavispora** B. & Br.

N.E.—Scarboro', on ash branches. To follow No. 2119.

PHYCOMYCETES.

2616. **Mortierella pilulifera** Van Teigh.

Var. **parvispora** A. L. Smith.

N.E.—Mulgrave Woods, on rabbit dung (Tr. B.M.S. '05, pp. 92 and 93). To follow No. 2173.

DEUTEROMYCETES.

2617. **Discula Fagi** Oudem.

N.W.—Masham, on dying beech-seedlings ('Nat.' June '05). First British record. To follow No. 2275.

2618. **Placosphæria corrugata** Karst.

S.W.—Hebden Bridge, on the husks of a germinating acorn. To follow No. 2291.

2619. **Steganosporium pyriforme** Corda.

N.E.—Mulgrave (Tr. B.M.S. '05). To follow No. 2292.

HYPHOMYCETES.

2620. **Monosporium olivaceum** Cke. & Mass.

Mid W.—Selby, on decaying bark, Ap. '05 ('Nat.' June '05). To follow No. 2332.

2621. **Haplographium chlorocephalum** Grove.

N.E.—Mulgrave Woods (Tr. B.M.S. '05). To follow No. 2391.

2622. **Stilbum acicula** (Berk.) Sacc.

Mid W.—Selby, on rhizomes of the fern *Davallia bullata*, in W. N. Cheesman's greenhouse ('Nat.' June '05). To follow No. 2434.

MYXOMYCETES.

2623. **Stemonitis pulchella** Bab. [*Comatricha Persoonii* Rost.].

N.E.—Cloughton Moor ravine, on holly leaves (*'Nat.' Jy. '04). To follow No. 2502.

2624. **Comatricha rubens** Lister.

N.E.—Yorkshire (Bulmer) Lister's Myc. p. 123. To follow No. 2502.

2624. **Craterium rubiginosum** Mass. [*Badhamia*. Rost.].

Var. **globosum** Lister.

N.E.—Arncliffe Woods, among *Sphagnum turfaceum* on vertical, dripping rocks (W. Ingham, 'Nat.' Nov. '04). To follow No. 2557.

2625. **Badhamia panicea** Rost.

Mid W.—Selby, on elm logs in timber yard, May '05 ('Nat.' June '05). To follow No. 2568.

ACRASIACEÆ.

2626. **Dictyostelium mucoroides** Bref.

N.E.—Mulgrave Woods (Tr. B.M.S. '05).

APPENDIX II.

ADDITIONAL RECORDS.

Owing to the length of time which elapsed between the publication of the first instalment (Nov., 1902) and the present and final one, many additional records have accumulated. For the first part, these include records made at the 1902, 1903, and 1904 Fungus Forays. All records of observations made since 1902 (and a few then accidentally omitted) not inserted in the body of the work are here included, and bring the list up to date of publication.

We consider the species number furnishes sufficient reference under which to place the additional localities, without encumbering the work by re-writing a host of generic and specific names already given.

To No. 2, N.E., add Castle Howard.
,, ,, 2, S.E., add Hull (Hull S. & F.N.C. 1902).
,, ,, 3, S.W., add Goole ('Nat.' Aug. '81). Ravensthorpe (H. Parkinson). Wooldale, in greenhouse (C. H. B.).
To No. 3, S.E., add Selby (Exc. '79. Tr. iv.).
,, ,, 4, S.E., add Hull (Hull S. & F.N.C. 1902).
,, ,, 4, N.W., add Rokeby (F.F. '04).
,, ,, 4, N.E., add Bulmer (Tr. iv.). Shotley Bridge.
,, ,, 14, S.W., add Cantley, nr. Doncaster ('Nat.' Ap. '03).
,, ,, 20, Mid W., add Grassington (Exc. 1900).
,, ,, 20, N.E., add Mulgrave, 1900. Helmsley (F.F. '03).
,, ,, 20, add N.W., Sedbergh (Exc. 1902).
,, ,, 21, S.W., add Saltaire, and Bingley (Tr. iv.). Haigh (*'Nat.' Oct. '82). Lepton (H. B. Soc.).
To No. 21, Mid W., add Grassington (Exc. 1900). Stainor Wood ('Nat.' Ap. '03).
To No. 21, S.E., add Hornsea (Hull S. & F.N.C.).
,, ,, 21, add N.W., Bowes ('Nat.' Sep. '03). Brignall '04.
,, ,, 21, N.E., add Bulmer (Tr. iv.). Egton Bridge (F.F. '02). Helmsley (F.F. '03).

To No. 23, N.E., add Mulgrave Woods (Tr. B. M. S. '05).
,, ,, 24, N.E., add Bulmer (Tr. iv.).
,, ,, 24, add S.E., North Cave '03 (A. R. Warnes).
,, ,, 25, S.W., add Ousefleet (*'Nat.' Jy. '81).
,, ,, 25, Mid W., add Kildwick (Tr. iv.).
,, ,, 25, N.W., add Bowes (*'Nat.' Sep. '03). Rokeby '04.
,, ,, 26, S.W., add Crimsworth, Hebden Bridge.
,, ,, 26, N.E., add Helmsley (F.F. '03).
,, ,, 26, Mid W., add Barden '03 (J. E. Sutcliffe).
,, ,, 26, N.W., add Rokeby (F.F. '04).
,, ,, 26, add S.E., Welton, Brough (*'Nat.' Aug. '01).
,, ,, 27, N.E., add Castle Howard (Tr. iv.).
,, ,, 31, N.E., add Leckby Carr (*'Nat.' Nov.' 82). Helmsley (F.F. '03). Mulgrave Woods (Tr. B.M.S. '05).
To No. 31, add N.W., Rokeby (F.F. '04).
,, ,, 32, S.W., add Goitstock, '04.
,, ,, 33, N.E., add Rievaulx, on the ground in the wood near the terrace (F.F. '03).
To No. 40, N.E., insert Bulmer in front of Castle Howard.
,, ,, 40, S.W., add Huddersfield. Rawcliffe (T. Bunker).
,, ,, 40, Mid W., add Stainor Wood, Selby, '03.
,, ,, 40, N.W., add Rokeby (F.F. '04).
,, ,, 41, N.E., add Helmsley, '03. Mulgrave (Tr. B.M.S. '05).
,, ,, 42, N.E., add Helmsley, and Rievaulx (F.F. '03).
,, ,, 43, Mid W., add Brimham (Exc. '02).
,, ,, 43, N.E., add Helmsley, Aug. '03 (H. Slater).
,, ,, 44, S.W., add Thongsbridge (C. H. Broadhead).
,, ,, 44, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 44, add N.W., Masham; Jervaulx ('Nat.' May '03).
,, ,, 45, N.E., add Helmsley, Aug. '03 (H. Slater).
,, ,, 46, N.E., add Helmsley, Aug. '03 (H. Slater).
,, ,, 48, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 51, form fulva, add N.E., Helmsley (F.F. '03).
,, ,, 52, add N.E., Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 54, S.W., add Thornes Park, Wakefield ('Nat.' Jan.'76).
,, ,, 54, N.E., add Helmsley, Aug. '03 (H. Slater).

To No. 55, S.E., add South Cave, '03 (A. R. Warnes).
,, ,, 55, N.E., add Rievaulx (F.F. '03).
,, ,, 56, N.E., add Rievaulx (F.F. '03).
,, ,, 56, S.W., add Sheepridge, near Huddersfield, '02 (C. H. Broadhead). Huddersfield, '03 (A. Clarke).
To No. 57, N.E., add Helmsley (F.F. '03).
,, ,, 58, add N.W., Burn Valley, near Masham, '03.
,, ,, 59, N.E., add Helmsley (F.F. '03).
,, ,, 62, add N.E., Rievaulx (F.F. '03).
,, ,, 66, S.W., add Maltby Wood, Roche Valley (T.G.).
,, ,, 66, Mid W., add Stainor Wood, Selby, '03.
,, ,, 66, N.E., add Helmsley, and Rievaulx (F.F. '03).
,, ,, 66, add N.W., Masham ('Nat.' May '03). Rokeby, '04.
,, ,, 71, S.W., add Bermerside, Hx. (Fl. Hx.).
,, ,, 72, N.E., add Egton Bridge (F.F. '02). Helmsley and Rievaulx (F.F. '03).
To No. 72, S.E,, add South Cave, '03 (A. R. Warnes).
,, ,, 72, add N.W., Masham, Oct. '03.
,, ,, 74, S.W., add Cullingworth.
,, ,, 74, add N.W., Masham ('Nat.' May '03). Rokeby, '04.
,, ,, 74, add N.E., Helmsley, '03. Mulgrave Woods (Tr. B.M.S. '05).
To No. 78, S.W., add Maltby Wood, Roche Valley (T.G.).
,, ,, 84, N.E., add Helmsley, on living beech (F.F. '03).
,, ,, 90, N.E., add Helmsley (F.F. '03).
,, ,, 91, N.E., add Helmsley (F.F. '03).
,, ,, 94, N.E., add Rievaulx, '03. Mulgrave (Tr. B.M.S. '05).
,, ,, 95, S.W., add Goitstock, '03.
,, ,, 95, add N.E., Helmsley (F.F. '03).
,, ,, 96, N.E., add Helmsley (F.F. '03).
,, ,, 96, S.W., add Warley Moor nr. Halifax, among decayed ling, etc., Oct. '03.
To No. 97, add S.W., Potridings Wood, Oct. '03 (T. Gibbs and W. N. Cheesman).
To No. 98, N.E., add Rievaulx (F.F. '03).
,, ,, 98, S.W., add Honley '02 (Milnesbridge B.S.).

To No. 98, add N.W., Masham, Oct. '03.
,, ,, 103, add N.W., Brignall (F.F. '04).
,, ,, 104, N.E., add Rievaulx, in fir wood (F.F. '03).
,, ,, 106, N.E., add Helmsley (F.F. '03).
,, ,, 107, N.E., add Helmsley (F.F. '03).
,, ,, 107, N.W., add Rokeby (F.F. '04).
,, ,, 108, N.E., add Helmsley, '03. Mulgrave Woods, '05.
,, ,, 108, N.W., add Rokeby (F.F. '04).
,, ,, 109, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 112, N.E., add Helmsley, and Rievaulx (F.F. '03).
,, ,, 112, add N.W., Rokeby (F.F. '04).
,, ,, 115, N.E., add Helmsley (F.F. '03).
,, ,, 118, N.E., add Helmsley (F.F. '03).
,, ,, 118, S.W., add Fixby (Fl. Hx.).
,, ,, 118, add S.E., Hornsea (Hull S. & F.N.C.).
,, ,, 119, S.W., add near Hebden Bridge (Fl. Hx.).
,, ,, 119, Mid W., add Grassington; Knaresboro' (J.E.S.).
,, ,, 119, add N.W., Masham ('Nat.' May '03).
,, ,, 119, add S.E., Filey (* 'Nat.' Jy. '03).
,, ,, 120, add N.E., Beckdale, near Helmsley, on the ground in rings, in a wood, May '03 (H. Slater).
To No. 120, add N.W., Rokeby (F.F. '04).
,, ,, 125, add N.E., Egton Bridge (F.F. '02). Rievaulx, and Helmsley (F.F. '03).
To No. 126, add N.W., Rokeby (F.F. '04).
,, ,, 127, N.E., add Rievaulx, and Helmsley (F.F. '03).
,, ,, 127, N.W., add Rokeby (F.F. '04).
,, ,, 127, add S.E., North Cave, '03 (A. R. Warnes).
,, ,, 128, S.W., add Hebden Brldge, and Skircoat, Hx. (Fl. Hx.). Thongsbridge, '02 (C. H. Broadhead).
To No. 128, N.E., add Rievaulx (F.F. '03).
,, ,, 128, add S.E., Hessle, '02 (Hull S. & F.N.C.).
,, ,, 128, add N.W., Masham ('Nat.' May '03).
,, ,, 129, add S.E., nr. Selby ('Nat.' Jan. '05). South Cave.
To No. 130, N.E., add Helmsley (F.F. '03).

To No. 130, add S.E., nr. Hull (A. R. Warnes).
,, ,, 131, Mid W., add Selby, in rings ('Nat.' Sep. '02).
,, ,, 131, N.E., add Helmsley (F.F. '03).
,, ,, 131, add S.E., North Cave, Aug. '03 (A. R. Warnes).
,, ,, 132, S.W., add Hunsworth, Oct. '03 (P. F. Lee).
,, ,, 132, S.E., add Hessle (Hull S. & F.N.C.).
,, ,, 133, add N.W., Masham ('Nat.' May '03).
,, ,, 136, N.E., add Rievaulx (F.F. '03).
,, ,, 136, S.W., insert Fixby after Hebden Bridge.
,, ,, 136, add S.E., Hull (Hull S. & F.N.C.).
,, ,, 137, N.E., add Helmsley (F.F. '03).
,, ,, 138, S.W., add Cadeby, and Potridings Wood, Oct. '03 (T. Gibbs, and W. N. Cheesman). Goitstock, '04.
To No. 138, S.E., add Hessle (Hull S. & F.N.C.).
,, ,, 139, N.E., add Mulgrave Woods (Tr. M.B.S. '05).
,, ,, 142, Mid W., add Stainor Wood, Selby, '03.
,, ,, 144, N.E., add Helmsley (F.F. '03).
,, ,, 145, add N.W., Masham ('Nat.' May '03). Rokeby, '04.
,, ,, 146, add N.W., Masham ('Nat.' May '03).
,, ,, 148, add S.E., Hull (Hull S. & F.N.C.).
,, ,, 149, N.W., add Rokeby (F.F. '03).
,, ,, 149, add S.W., Hunsworth, Oct. '03 (P. F. Lee).
,, ,, 149, add S.E., South Cave, '03 (A. R. Warnes).
,, ,, 151, add N.E., Rievaulx (F.F. '03).
,, ,, 156, S.E., add Hull, '02 (A. R. Warnes).
,, ,, 156, N.W., add Rokeby (F.F. '04).
,, ,, 156, add N.E., Rievaulx; Helmsley (F.F. '03).
,, ,, 158, N.E., add Rievaulx; Helmsley (F.F. '03). Mulgrave Woods (Tr. B.M.S. '05).
To No. 158, N.W., add Rokeby (F.F. '04).
,, ,, 158, add S.E., Hull; Hornsea (Hull S. & F.N.C.).
,, ,, 160, N.E., add Rievaulx (F.F. '03).
,, ,, 160, add S.E., South Cave, '03 (A. R. Warnes).
,, ,, 163, add S.E., Hull, on moss in a garden (A.R.W.).
,, ,, 164, Mid W., add Knaresborough, '03 (H. Fisher).
,, ,, 164, add N.W., Masham ('Nat.' May '03).

To No. 165, S.W., add Thongsbridge (C. H. Broadhead). Midgley Moor, among bracken (Fl. Hx.).

To No. 165, N.E., add Helmsley; Rievaulx (F.F. '03).

,, ,, 165, N.W., add Rokeby (F.F. '04).

,, ,, 170, add S.E., North Cave, '03 (A. R. Warnes).

,, ,, 171, Var. amethystina, N.E., add Rievaulx.

,, ,, 171, Var. amethystina, add N.W., Masham ('Nat.' May '03).

To No. 174, Mid W., add Baildon Moor, '03 (J.E.S.).

,, ,, 174, S.W., add Maltby Wood, Roche Abbey Valley (T.G.). Thongsbridge, '02 (C. H. Broadhead).

To No. 174, N.E., add Egton Bridge, '02. Helmsley, '03.

,, ,, 174, add N.W., Rokeby (F.F. '04).

,, ,, 175, S.W., add Ingham Park, Mirfield (A. Clarke).

,, ,, 175, N.E., add Helmsley, '03. Mulgrave Woods, '05.

,, ,, 179, N.E., add Egton Bridge (F.F. '02). Helmsley, and Rievaulx (F.F. '03).

To No. 179, Mid W., add Knaresborough, '03 (H. Fisher).

,, ,, 179, S.E., add North Cave, '03 (A. R. Warnes).

,, ,, 181, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 183, N.E., add Egton Bridge, '02. Rievaulx, '03.

,, ,, 183, add N.W., Masham, '03. Rokeby (F.F. '04).

,, ,, 186, Mid W., add Church Fenton (Lees' Fl.).

,, ,, 194, N.E., add Kirkdale, Helmsley, '03 (H. Slater).

,, ,, 194, N.W., add Rokeby (F.F. '04).

,, ,, 194, add S.E., North Cave, '03 (A. R. Warnes).

,, ,, 194, add Mid W., Pateley Bridge, '03 (F. Crossland, Hx.).

,, ,, 197, N.E., add Helmsley (F.F. '03).

,, ,, 197, S.W., add Goitstock, '02.

,, ,, 206, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 207, add N.E., Harwood Dale, nr. Scarboro', among *Sphagnum* in a swamp (* 'Nat.' June '04).

To No. 210, add N.W., Thorsgill (F.F. '04).

,, ,, 214, S.W., add Goitstock, '04.

,, ,, 214, N.E., add Helmsley, Aug. '03 (H. Slater).

,, ,, 215, N.E., add Helmsley, July '03 (H. Slater).

To No. 215, add S.E., Hessle (Hull S. & F.N.C.).
,, ,, 218, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 219, N.E., add Helmsley (F.F. '03).
,, ,, 220, N.E., add Helmsley (F.F. '03).
,, ,, 221, Mid W., add Grassington (Exc. 1900).
,, ,, 223, S.E., add Hessle, '02 (Hull S. & F.N.C.).
,, ,, 223, N.E., add Helmsley (F.F. '03).
,, ,, 223, N.W., add Bowes (*'Nat.' Sep. '03). Rokeby, '04.
,, ,, 225, Var., add N.W., Rokeby (F.F. '04).
,, ,, 225, Var., add N.E., Helmsley; Rievaulx (F.F. '03).
,, ,, 226, Mid W., add Grassington (Exc. 1900).
,, ,, 226, N.E., add Helmsley (F.F. '03).
,, ,, 226, N.W., add Rokeby (F.F. '04).
,, ,, 231, add N.E., Helmsley (F.F. '03).
,, ,, 231, add S.E., North Cave, Oct. '03 (A. R. Warnes).
,, ,, 231, add Mid W., Pateley Bridge, '03 (F. Crossland, Hx.).
To No. 231, add N.W., Rokeby (F.F. '04).
,, ,, 232, S.W., add North Dean Wood (Fl. Hx.). Goitstock.
,, ,, 236, Mid W., add Grassington (Exc. 1900).
,, ,, 236, S.W., add Goitstock.
,, ,, 236, N.E., add Helmsley (F.F. '03).
,, ,, 236, N.W., add Rokeby (F.F. '04).
,, ,, 237, N.E., add Rievaulx (F.F. '03).
,, ,, 237, S.E., add South Cave, '03 (A. R. Warnes).
,, ,, 237, N.W., add Rokeby (F.F. '04).
,, ,, 241, N.W., add Rokeby (F.F. '04).
,, ,, 244, N.E., add Helmsley (F.F. '03).
,, ,, 244, add N.W., Masham ('Nat.' Jan. '02). Rokeby, '04.
,, ,, 244, add S.E., Hessle (Hull S. & F.N.C.).
,, ,, 245, add N.W., Rokeby (F.F. '04).
,, ,, 245, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 246, add N.E., Kirkdale, Helmsley (H. Slater).
,, ,, 246, add N.W., Rokeby (F.F. '04).
,, ,, 249, N.W., add Bowes (*'Nat.' Sep. '03).
,, ,, 250, N.E., add Mulgrave, 1900. Helmsley (F.F. '03).

To No. 250, N.W., add Bowes (*'Nat.' Sep. '03). Rokeby, (F.F. '04).

To No. 251, N.E., add Helmsley (F.F. '03).

,, ,, 251, add S.E., Hull, Oct. '03 (A. R. Warnes).

,, ,, 251, add N.W., Rokeby (F.F. '04).

,, ,, 254, S.W., add Midgley, Hx., among dead ling.

,, ,, 254, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 255, Mid W., add Grassington (Exc. 1900).

,, ,, 255, N.E., add Rievaulx, and Helmsley (F.F. '03).

,, ,, 255, S.E., add South Cave, '03 (A. R. Warnes).

,, ,, 255, N.W., add Brignall (F.F. '04).

,, ,, 256, add N.E., Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 259, add N.W., Rokeby, on dead pine-twig (F.F. '04).

,, ,, 260, add S.W., Potridings Wood, '03 (T.G. & W.N.C.).

,, ,, 260, add N.W., Rokeby (F.F. '04).

,, ,, 261, add S.E., Filey, on root-stock of living meadow-sweet (*'Nat.' July '03).

To No. 261, add N.W. Rokeby (F.F. '04).

,, ,, 262, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 266, N.W., add Rokeby (F.F. '04).

,, ,, 268, N.W., add Brignall and Rokeby (F.F. '04).

,, ,, 274, N.E., add Harwood Dale, near Scarboro', on *Sphagnum* bed (*'Nat.' June '04).

To No. 280, N.E., add Bulmer.

,, ,, 286, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 287, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 287, add N.W., Rokeby (F.F. '04).

,, ,, 290, add N.W., Rokeby (F.F. '04).

,, ,, 291, N.W., add Rokeby (F.F. '04).

,, ,, 300, add N.W., Rokeby (F.F. '04).

,, ,, 301, N.E., add Bulmer.

,, ,, 302, add N.W., Rokeby (F.F. '04).

,, ,, 313, N.W., add Rokeby (F.F. '04).

,, ,, 325, N.E., add Mulgrave Woods (F.F. 1900).

,, ,, 327, N.E., add Iburndale (Tr. B.M.S. '05).

,, ,, 333, add N.W., Rokeby (F.F. '04).

To No. 334, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 336, add N.W., Rokeby (F.F. '04).
,, ,, 336, Mid W., add Knaresborough, '04 (H. Fisher).
,, ,, 345, add N.E., Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 346, N.W., add Rokeby (F.F. '04).
,, ,, 351, S.W., add Grenoside, Sheffield.
,, ,, 351, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 353, add N.E., Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 357, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 375, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 380, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 381, add N.W., Rokeby (F.F. '04).
,, ,, 394, add N.W., Rokeby (F.F. '04).
,, ,, 396, add N.W., Rokeby (F.F. '04).
,, ,, 398, add N.W., Brignall (F.F. '04).
,, ,, 407, add N.W., Rokeby (F.F. '04).
,, ,, 412, N.W., add Rokeby (F.F. '04).
,, ,, 414, add N.W., Rokeby (F.F. '04).
,, ,, 416, add N.E., Harwood Dale (*'Nat.' June '04).
,, ,, 417, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 420, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 436, N.E., add Iburndale (Tr. B.M.S. '05).
,, ,, 442, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 460, S.W., Var., add Goitstock.
,, ,, 462, add N.W., Rokeby ((F.F. '04).
,, ,, 471, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 475, N.W., add Rokeby (F.F. '04).
,, ,, 486, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 492, add N.W., Rokeby (F.F. '04).
,, ,, 500, add N.E., Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 516, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 517, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 519, add N.E., Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 520, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 521, N.E., add Scarboro', among moss on heaths.
,, ,, 529, add N.W., Brignall and Rokeby (F.F. '04).

To No. 530, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 533, N.W., add Brignall (F.F. '04).
,, ,, 557, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 561, add N.W., Rokeby (F.F. '04).
,, ,, 574, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 583, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 593, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 604, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 605, add N.W., Brignall and Thorsgill (F.F. '04).
,, ,, 606, add N.W., Brignall (F.F. '04).
,, ,, 615, S.W., add Goitstock.
,, ,, 615, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 621, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 633, Var. silvicola, N.E., add Coxwold (*'Nat.' Sep. '02).
,, ,, 634, S.W., add Goitstock, '04).
,, ,, 636, add S.E., Pocklington (F.F. '93).
,, ,, 641, add N.W., Rokeby (F.F. '04).
,, ,, 642, add N.W., Brignall (F.F. '04).
,, ,, 654, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 654, add N.W., Rokeby (F.F. '04).
,, ,, 655, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 658, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 658, add N.W., Rokeby (F.F. '04).
,, ,, 664, N.E., add Egton Bridge (F.F. '02).
,, ,, 665, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 667, S.W., add Wharncliffe, '03 (T. Gibbs).
,, ,, 667, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 667, add N.W., Rokeby (F.F. '04).
,, ,, 670, N.W., add Brignall and Rokeby (F.F. '04).
,, ,, 672, add N.E., Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 684, add N.E., Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 692, N.E., Var., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 694, N.W., add Brignall (F.F. '04).
,, ,, 698, N.W., add Rokeby (F.F. '04).
,, ,, 701, N.E., add Coxwold (*'Nat.' Sep. '02).
,, ,, 706, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

To No. 710, add N.W., Rokeby (F.F. '04).
" " 730, add N.E., Scarboro', and Welburn.
" " 730, Var. cinereus, add N.E., Mulgrave (Tr. B.M.S. '05).
" " 740, add N.W., Rokeby (F.F. '04).
" " 751, add N.W., Brignall (F.F. '04).
" " 752, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 754, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 756, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 766, add N.W., Brignall (F.F. '04).
" " 788, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 797, add N.E., Mulgrave Woods (Tr. B.M.S. '05).
" " 799, N.W., add Brignall and Rokeby (F.F. '04).
" " 799, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 802, N.E., add Iburndale (Tr. B.M.S. '05).
" " 802, add N.W., Rokeby (F.F. '04).
" " 803, add N.W., Rokeby and Brignall ((F.F. '04).
" " 809, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 820, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 823, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 827, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 828, add N.W., Rokeby (F.F. '04).
" " 830, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 833, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 839, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 843, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 854, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 856, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 856, add N.W., Rokeby (F.F. '04).
" " 862, add N.E., Mulgrave Woods (Tr. B.M.S. '05).
" " 870, add N.W., Rokeby (F.F. '04).
" " 871, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 880, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 896, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 898, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
" " 900, add N.W., Rokeby (F.F. '04).
" " 901, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

To No. 909, S.W., add Shipley (Lees' Fl., Add.).
,, ,, 909, N.E., add Coxwold (*'Nat.' Sep. '02).
,, ,, 923, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 940, add N.W., Rokeby (F.F. '04).
,, ,, 943, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 943, add N.W., Rokeby (F.F. '04).
,, ,, 950, N.W., add Rokeby (F.F. '04).
,, ,, 954, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 961, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 967, S.W., add Hartshead churchyard, '92, on old yew tree.
To No. 975, add S.W., nr. Hebden Bridge, '04.
,, ,, 977, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 983, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 994, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 997, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 1003, add S.W., Hebden Bridge (*'Nat.' Jy. '04).
,, ,, 1012, N.W., add Rokeby (F.F. '04).
,, ,, 1029, add N.W., Rokeby (F.F. '04).
,, ,, 1034, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 1036, add N.W., Brignall and Rokeby (F.F. '04).
,, ,, 1037, add N.W., Rokeby (F.F. '04).
,, ,, 1063, add N.W., Rokeby (F.F. '04).
,, ,, 1063, add Mid W., Stainor Wood, Selby, Jan. '05.
,, ,, 1064, add N.W., Brignall and Rokeby (F.F. '04).
,, ,, 1066, N.E., add Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 1078, S.W., add Shipley Glen (Lees' Fl., Add.).
,, ,, 1092, add N.W., Brignall (F.F. '04).
,, ,, 1104, Var., add N.E., Mulgrave Woods (Tr. B.M.S. '05).
,, ,, 1119, add N.W., Rokeby (F.F. '04).
,, ,, 1122, N.W., add Brignall (F.F. '04).
,, ,, 1123, add N.W., Rokeby (F.F. '04).
,, ,, 1133, add N.W., Rokeby (F.F. '04).
,, ,, 1135, add N.W., Rokeby (F.F. '04).
,, ,, 1136, N.W., add Rokeby and Brignall (F.F. '04).
,, ,, 1138, N.W., add Rokeby (F.F. '04).

To No. 1150, N.W., add Brignall and Rokeby (F.F. '04), and delete "or" preceding N.W.

To No. 1177, add Mid W., Church Fenton (Lees' Fl.).

,, ,, 1191, add S.E., Boynton (W.W.S.).

,, ,, 1232, N.E., add Mulgrave (Tr. B.M.S. '05).

,, ,, 1249, add N.E., Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 1254, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 1430, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 1445, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 1485, S.W., add Wentbridge, Ap. '05 (J. W. H. Johnson).

,, ,, 1608, add N.E., Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 1615, add N.E., Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 1698, add N.E., Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 1785, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 1803, add N.E., Strensall, on bare, sandy ground in a wood, W. Ingham ('Nat.' June '05).

To No. 1833, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 1847, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 1931, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 1938, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 2074, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 2271, add N.E., Mulgrave Woods (Tr. B.M.S. '05).

,, ,, 2311, N.E., add Mulgrave Woods (Tr. B.M.S. '05).

APPENDIX III.

OMISSIONS.

To No. 84, add 'Parasitic on beech.'

,, ,, 116, add '(Grev. xviii. p. 51).'

,, ,, 142, add 'Has a strong smell of aniseed.'

,, ,, 164, add 'On the ground in moist woods.'

,, ,, 180, add 'Parasitic on trees.'

,, ,, 189, N.E., add 'First British record (Grev. xviii. p. 51).'

,, ,, 213, N.E., add 'On decaying larch-twig.'

,, ,, 229, add '(Grev. xvi. p. 42)' after first British record.

,, ,, 287, insert 'Var. **Swartzii** Fr.' above N.E.

,, ,, 460, Var. **minor** Cke., add '=*H. hyemale* Bres.'

,, ,, 627, add '(Cooke's Illustr. pl. 846*a*).'

,, ,, 633, Var. **rufescens** S.W., add '('Nat.' June '81).'

,, ,, 713, add '(Cooke's Illustr. pl. 656*a*).'

,, ,, 723, add '(Cooke's Illustr. pl. 848).'

,, ,, 794, N.E., add '(Grev. viii. p. 2).'

,, ,, 1008, add 'Often from wounds on living trees, and suspected of being a parasite.'

To No. 1018, add 'Often springs in dense masses from the roots of living trees, and is probably a parasite (Mass., Text-Book of Plant Diseases, p. 198).'

To No. 1025, add 'Attacks the majority of broad-leaved trees; in orchards the apple tree is most frequently attacked (Mass., Text-book of Plant Diseases, pp. 191-193, fig. 44).'

To No. 1054, add 'This fungus is a very destructive parasite, attacking the beech more especially, although it also occurs on the common elm, and on various fruit trees (Mass., Text-Book of Plant Diseases, pp. 185-188, fig. 42).'

To No. 1147, add 'S.W., Ravensthorpe, on living hazel, Nov. '01 (H. Parkinson).'

To No. 1458, after Fl. Hx., add 'first British record.'

,, ,, 1464, insert 'For diagnosis and remarks, see (New Fungi.),' in front of 'Nat.' Jan. '04).

CORRECTIONS.

Delete 'Shireoaks' in all cases: although quoted in Flora of West Yorkshire, it is outside the county.

Where 'Stainer Wood' occurs, read Stainor Wood.

Where 'Hawkesworth' occurs, read Hawksworth.

On pp. 9-53, for 'Hx.' read (Fl. Hx.). The Flora of Halifax was published subsequently to these pages, but all Hx. species there quoted were included.

No. 7, 'Thelebolus stercoreus' to be here deleted: is now included in the *Ascobolaceæ*, see (Researches on Coprophilous Fungi, Mass. and Salm., Annals of Botany, June 1901).

No. 26, S.W., for "1775' read 1788.

,, 44, S.E., place note on the Grindale specimen, under N.E.

Page 20, line one, for 'Mid W., read S.W.

The Selby records '(F.F. '84 = 'Nat.' Jan. '85)' Mid W. under Nos. 80, 87, 90, 93, 98, 108, 114, 139, 145, 148, 151, 162, 166, 174, 179, 183, 214, 220, 236, 250, 251, 255 and 261, should all come under S.E. Most of them relate to Skipwith; a few to Blackwood.

No. 95, for 'ustulum' read ustale.

,, 101, for 'columbella' read columbetta.

Page 32, line 5, for '1892' read 1902.

,, 39, line 11, for '1885' read 1884.

No. 174, S.W., place 'Blackwood, Selby (F.F.'96)' under S.E.

,, 175, Mid W., place 'Shipley Glen' under S.W.

,, 186, S.W., for '(F.F. 1881)' read (F.F. 1891).

,, 187, transfer note under this species to No. 2605, App. I.

,, 210, insert 'S.W.' in front of Owston.

,, 268, N.E., place 'Filey (*'Nat.' Jy. 1903)' under S.E.

,, 355, N.E., place 'Filey (G.M.)' under S.E.

,, 424, Mid W., delete 'Selby (F.F. 1896).'

,, 495, S.W., insert 'Mid W.' in front of Baildon.

,, 547, N.W., insert 'N.E.' in front of Helmsley.

,, 567, for 'Sim Wood' read Sun Wood.

,, 572, N.E., place 'Filey (G.M.)' under S.E.

No. 645, for 'melasperma' read melanosperma and add (=*S. melasperma* of many authors).
No. 682, for '(1903)' after Arncliffe read 1902.
,, 746, for 'aquatiles' read aquatilis.
,, 858, N.E., for '(F.F. '03)' read (F.F. '02).
,, 865 should be placed under No. 884 as a Var.
,, 890, insert 'S.W.' in front of Hebden Bridge.
,, 894 should be placed under No. 876 as a Var.
,, 900, for 'N.W.' read S.W.
,, 963, add 'S.W.' in front of Var. nanus.
,, 1068, N.W., for 'June' read Jan.
,, 1135, N.E., insert 'S.E.' in front of Filey.
,, 1136, N.W., for '92' read '02.
,, 1180, N.E., insert 'S.E.' in front of Filey.
,, 1221, S.W., for '1799' read 1789.
,, 1239, insert 'S.E.' in front of Filey.
,, 1270, for 'mucleata' read nucleata.
,, 1274, for 'Ness' read Nees.
,, 1328, delete ',' after *Mentha*.
,, 1330, N.W., for ''03' read '04.
,, 1357, insert 'S.W.' in front of Common.
,, 1374, Mid W., for '*S. palustris*' read *S. aquaticus*, also second line below, for '*aquatica*' read *aquaticus*, and delete remainder of sentence.
No. 1417, for 'Rauwenhofi' read Rauwenhofii.
,, 1462, delete ')' after Sacc.
,, 1488, for 'S.W.' read S.E.
,, 1499, insert 'S.E.' in front of Filey.
,, 1500, for 'in fronds' read on fronds.
,, 1503, insert ',' after sycamore.
,, 1553, S.E., for 'Hall' read Hull.
,, 1554, for '*communs*' read *communis*.
,, 1608, insert 'Aug. '04' after Halifax.
,, 1669, for '*Podosphæria*' read *Podosphæra*.
,, 1671, for '*leuconicum*' read *leucoconium*.
,, 1673, bottom line, for 'f. 26' read f. 16.

No. 1717, for '*Ostrichnion*' read *Ostreichnion*.
,, 1747, third line from bottom, for 'forma' read form.
Page 251, lines 12, 16, and 29, for '*Psilopeziza*' read *Psilopezia*.
No. 1753, line 6, for '(Tr. vi.)' read (Tr. iv.).
,, 1756, after May '03 add ')'.
,, 1792, for '1804' read 1904.
,, 1992. for 'S.W.' in front of Hessle read S.E.
,, 2146, for '*Stictus*' read *Stictis*.
,, 2236, for 'Neottispora' read Neottiospora.
Page 322, for 'Cytospora' read Cytispora.
Place No. 2573 first in Myxomycetes.

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